

# Source List for Terms

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## Using This Resource

The book *Vocabulary for the New Science Standards* (Marzano, Rogers, & Simms, 2015) presents K–12 science vocabulary terms from the Next Generation Science Standards\* (NGSS; NGSS Lead States, 2013) and *Building Background Knowledge for Academic Achievement* (Marzano, 2004), which was itself a compilation of science terms from previous standards documents. This document lists the source of each vocabulary term from *Vocabulary for the New Science Standards*.

Teachers and school leaders can think of this list as a menu from which they can select the most appropriate words to teach in their classrooms and schools. For more in-depth information about choosing words to teach and implementing comprehensive vocabulary programs in classrooms, schools, and districts, please consult *Vocabulary for the New Science Standards* (Marzano et al., 2015). Readers who want to learn more about instruction in science vocabulary—including a six-step process for teaching vocabulary, a synthesis of the research supporting direct vocabulary instruction in science, an organizational scheme that clusters related terms on the list into measurement topics, and an explanation of our methodology in selecting and organizing terms—will also find the book useful.

As explained in *Vocabulary for the New Science Standards* (Marzano et al., 2015), we used Beck, McKeown, and Kucan’s (2002) three-tiered framework to guide our analysis of vocabulary terms. Our analysis focused primarily on words in Tiers 2 and 3. However, the terms in the book are not organized strictly into Tiers 1, 2, and 3. Instead, they are organized into two broad categories based on their level of content specificity.

1. **General academic words:** Not specific to a particular content area, but necessary for success in school (such as *critique*, *proportion*, and *evidence*). These include terms related to crosscutting practices and concepts in science, as well as cognitive verbs.
2. **Domain-specific words:** Specific to the content area of science (such as *viscosity*, *cytoplasm*, and *germination*).

The general academic category includes mostly Tier 2 terms and the domain-specific category includes mostly Tier 3 terms. However, certain exceptions apply. When a Tier 2 term had a unique or specialized meaning in the context of science (such as *atmosphere*, *magnitude*, and *environment*), we included it in the domain-specific category. When a Tier 1 term pertained directly to science (such as *river* and *human*), we also included it in the domain-specific category. It is also important to note that some of the terms from the standards were not stated in the individual content standards, but rather appeared in clarification statements or in descriptions of the disciplinary core ideas, scientific practices, and crosscutting concepts associated with the standards. As previously mentioned, *Vocabulary for the New Science Standards* provides a more detailed description of these dimensions.

This list designates each term’s source using abbreviated notations. We use the letters *BBK* to indicate that a term came from *Building Background Knowledge for Academic Achievement*. We use performance expectation codes from the NGSS’s organizational scheme (such as *HS-LS1-1*, *MS-ESS1-3*, or *2-PS2-2*) to indicate that a term came from an individual content standard. We use the letters *SP* followed by a

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number to indicate that a term came from one of the descriptions of the eight scientific practices (SP) found on pages 50–53 of *A Framework for K–12 Science Education* (National Research Council, 2012).

The eight practices are as follows:

1. Asking questions and defining problems
2. Developing and using models
3. Planning and carrying out investigations
4. Analyzing and interpreting data
5. Using mathematics and computational thinking
6. Constructing explanations and designing solutions
7. Engaging in argument from evidence
8. Obtaining, evaluating, and communicating information

The number that follows *SP* indicates the specific practice in the framework where each term is found (for example, *SP: 1* indicates that a term is associated with the first practice, Asking questions and defining problems). When the letters *DCI*, *CC*, or *SP* are followed by a performance expectation code (for example, *DCI: MS-LS1-4*, *CC: 4-PS2-2*, or *SP: K-ESS1-1*), it indicates that the term is found in a disciplinary core idea (DCI), crosscutting concept (CC), or scientific practice (SP) statement associated with a specific standard. These statements are shown in blue (DCI), orange (CC), and green (SP) boxes below each standard in the NGSS document (NGSS Lead States, 2013). Finally, we added a number of vocabulary terms that represented important concepts for students to understand, even though they did not appear in the NGSS or in *Building Background Knowledge for Academic Achievement*. For example, the terms *argument* and *latitude* appeared in the NGSS, and so we added the terms *argue* and *longitude*, respectively. We use the words *Marzano Research* to indicate that a term was added by Marzano Research.

The following table presents these source notations for easy reference:

Notation	Meaning
<b>Performance expectation code</b>	Term from an NGSS grade-level standard
<b>BBK</b>	Term from <i>Building Background Knowledge for Academic Achievement</i>
<b>SP: #</b>	Term from scientific practice in the <i>Framework</i>
<b>CC: Performance expectation code</b>	Term from an NGSS crosscutting concept associated with a specific standard
<b>DCI: Performance expectation code</b>	Term from an NGSS disciplinary core idea associated with a specific standard
<b>SP: Performance expectation code</b>	Term from an NGSS scientific practice associated with a specific standard
<b>Marzano Research</b>	Term was added by Marzano Research

## References

- Beck, I. L., McKeown, M. G., & Kucan, L. (2002). *Bringing words to life: Robust vocabulary instruction*. New York: Guilford Press.
- Marzano, R. J. (2004). *Building background knowledge for academic achievement: Research on what works in schools*. Alexandria, VA: Association for Supervision and Curriculum Development.

Marzano, R. J., Rogers, K., & Simms, J. A. (2015). *Vocabulary for the new science standards*. Bloomington, IN: Marzano Research.

National Research Council. (2012). *A framework for K–12 science education: Practices, crosscutting concepts, and core ideas*. Washington, DC: National Academies Press.

NGSS Lead States. (2013). *Next Generation Science Standards: For states, by states*. Washington, DC: National Academies Press.

# General Academic Vocabulary Terms

## Crosscutting Practices and Concepts

Term	Source
<b>abstract</b>	SP: 4-PS4-1
	SP: MS-ESS1-1
	SP: MS-ESS1-2
	SP: MS-ESS2-1
	SP: MS-ESS2-4
	SP: MS-ESS2-6
	SP: MS-ETS1-4
	SP: MS-LS1-2
	SP: MS-LS1-7
	SP: MS-LS2-3
	SP: MS-LS3-1
	SP: MS-LS3-2
	SP: MS-PS1-1
	SP: MS-PS1-4
	SP: MS-PS1-5
	SP: MS-PS3-2
SP: MS-PS4-2	
<b>accurate</b>	DCI: HS-LS3-2

<b>activity</b>	4-ESS3-2
	MS-ESS3-1
	MS-ESS3-5
	HS-ESS2-4
	HS-ESS3-1
	HS-ESS3-4
	HS-ESS3-6
	HS-LS2-7
	HS-LS4-6
	CC: MS-ESS3-1
	CC: MS-ESS3-4
	CC: MS-ETS1-1
	DCI: 5-ESS3-1
	DCI: MS-ESS3-3
	DCI: MS-ESS3-4
	DCI: MS-ESS3-5
	DCI: HS-ESS2-4
	DCI: HS-ESS2-6
	DCI: HS-ESS3-6
	DCI: HS-LS2-7
DCI: HS-LS4-6	
<b>algebraic</b>	CC: HS-ESS1-4
	CC: HS-LS3-3
	SP: HS-ESS1-4
	SP: HS-ESS3-3
	SP: HS-ESS3-6
	SP: HS-ETS1-4
	SP: HS-LS2-1
	SP: HS-LS2-2
	SP: HS-LS2-4
	SP: HS-LS4-6
	SP: HS-PS1-7
	SP: HS-PS2-2
	SP: HS-PS2-4(a)
	SP: HS-PS2-4(b)
SP: HS-PS3-1	
SP: HS-PS4-1	

<b>amount</b>	1-ESS1-2
	4-ESS2-1
	5-ESS2-2
	MS-PS3-2
	MS-PS3-4
	HS-ESS2-2
	HS-PS1-6
	HS-LS1-2
	CC: HS-ESS2-6
	DCI: 5-PS1-2
	DCI: MS-PS3-3
	DCI: MS-PS3-4
	DCI: HS-ESS2-5
	DCI: HS-ESS3-6

<b>analysis</b>	MS-ESS1-3 MS-ESS1-4 HS-LS2-1 SP: 3 SP: 4 SP: 5 CC: HS-ESS2-2 CC: HS-ESS3-2 CC: HS-ETS1-1 CC: HS-ETS1-3 DCI: MS-ESS1-4 SP: MS-ESS1-3 SP: MS-ESS2-3 SP: MS-ESS3-2 SP: MS-ETS1-3 SP: MS-LS2-1 SP: MS-LS4-1 SP: MS-LS4-3 SP: MS-PS1-2 SP: MS-PS3-1 SP: HS-ESS1-4 SP: HS-ESS2-2 SP: HS-ESS3-3 SP: HS-ESS3-5 SP: HS-ESS3-6 SP: HS-ETS1-4 SP: HS-LS2-1 SP: HS-LS2-2 SP: HS-LS2-4 SP: HS-LS3-3 SP: HS-LS4-3 SP: HS-LS4-6 SP: HS-PS1-7 SP: HS-PS2-1 SP: HS-PS2-2 SP: HS-PS2-4(a) SP: HS-PS2-4(b) SP: HS-PS3-1 SP: HS-PS4-1	<b>appropriate</b>	MS-ESS2-2 DCI: MS-PS1-4 SP: MS-LS1-8 SP: MS-LS4-5 SP: MS-PS1-3 SP: MS-PS2-3 SP: HS-ESS1-5 SP: HS-ESS2-7 SP: HS-ESS3-2 SP: HS-LS2-6 SP: HS-LS2-8 SP: HS-LS3-2 SP: HS-LS4-5 SP: HS-PS4-3	<b>argument</b>	SP: MS-LS1-3 SP: MS-LS1-4 SP: MS-LS2-4 SP: MS-LS2-5 SP: MS-LS4-6 SP: MS-PS2-3 SP: MS-PS2-4 SP: MS-PS3-5 SP: MS-PS4-1 SP: HS-ESS1-5 SP: HS-ESS2-4 SP: HS-ESS2-7 SP: HS-ESS3-2 SP: HS-ESS3-5 SP: HS-LS2-6 SP: HS-LS2-8 SP: HS-LS3-2 SP: HS-LS4-5 SP: HS-PS4-2 SP: HS-PS4-3
	<b>argument</b>		K-ESS2-2 2-PS1-4 3-LS2-1 3-LS4-3 4-LS1-1 5-ESS1-1 5-LS1-1 5-PS2-1 MS-ESS3-4 MS-LS1-3 MS-LS1-4 MS-LS2-4 MS-PS2-4 MS-PS3-5 HS-LS2-8 HS-LS3-2 SP: 7 SP: K-ESS2-2 SP: 2-PS1-4 SP: 3-ESS3-1 SP: 3-LS2-1 SP: 3-LS4-3 SP: 3-LS4-4 SP: 4-LS1-1 SP: 5-ESS1-1 SP: 5-LS1-1 SP: 5-PS2-1 SP: MS-ESS3-4 SP: MS-ESS3-5 SP: MS-ETS1-1 SP: MS-ETS1-2		

<b>assumption</b>	MS-LS4-1	<b>basic</b>	MS-PS4-3	<b>basis</b>	DCI: 3-5-ETS1-1
	CC: HS-ESS1-2		SP: 1		DCI: 4-PS3-4
	CC: HS-LS4-1		CC: HS-ESS1-2		DCI: MS-ETS1-4
	CC: HS-LS4-4		CC: HS-PS1-7		DCI: MS-PS1-6
	CC: HS-PS3-1		CC: HS-PS3-1		DCI: MS-PS3-3
	SP: MS-ESS1-4		SP: MS-ESS1-3		SP: 1-PS4-1
	SP: MS-ESS2-2		SP: MS-ESS2-3		SP: 1-PS4-3
	SP: MS-ESS3-1		SP: MS-ESS3-2		SP: 2-LS2-1
	SP: MS-LS1-5		SP: MS-ETS1-3		SP: 2-PS1-1
	SP: MS-LS1-6		SP: MS-LS2-1		SP: 3-5-ETS1-3
	SP: HS-ESS1-2		SP: MS-LS4-1		SP: 3-PS2-1
	SP: HS-ESS1-4		SP: MS-LS4-3		SP: 3-PS2-2
	SP: HS-ESS3-1		SP: MS-PS1-2		SP: 4-ESS2-1
	SP: HS-ESS3-3		SP: MS-PS3-1		SP: 4-PS3-2
	SP: HS-ESS3-4		SP: HS-ESS1-4		SP: 5-PS1-3
	SP: HS-ESS3-6		SP: HS-ESS3-3		SP: 5-PS1-4
	SP: HS-ETS1-4		SP: HS-ESS3-6		SP: MS-ESS2-5
	SP: HS-LS1-1		SP: HS-ETS1-4		SP: MS-LS1-1
	SP: HS-LS1-6		SP: HS-LS2-1		SP: MS-PS2-5
	SP: HS-LS2-1		SP: HS-LS2-2		SP: HS-LS1-3
SP: HS-LS2-2	SP: HS-LS2-4	SP: HS-PS1-3			
SP: HS-LS2-3	SP: HS-LS4-6	SP: HS-PS2-5			
SP: HS-LS2-4	SP: HS-PS1-7	SP: HS-PS3-4			
SP: HS-LS4-2	SP: HS-PS2-2	<b>benefit</b>	BBK		
SP: HS-LS4-4	SP: HS-PS2-4(a)		HS-ESS3-2		
SP: HS-LS4-6	SP: HS-PS2-4(b)		CC: 3-5-ETS1-2		
SP: HS-PS1-2	SP: HS-PS3-1		CC: 3-ESS3-1		
SP: HS-PS1-7	SP: HS-PS4-1		CC: 4-ESS3-2		
SP: HS-PS2-2			CC: HS-ESS2-2		
SP: HS-PS2-4(a)			CC: HS-ESS3-2		
SP: HS-PS2-4(b)			CC: HS-ESS3-4		
SP: HS-PS3-1			CC: HS-ETS1-1		
			CC: HS-ETS1-3		
<b>bar graph</b>	SP: 3-ESS2-1		CC: HS-PS3-3		
	SP: 5-ESS1-2		CC: HS-PS4-2		
		<b>bias</b>	DCI: HS-ESS3-2		
			DCI: HS-LS2-7		
			DCI: HS-LS4-6		
			BBK		

<b>boundary</b>	MS-LS2-3 HS-LS2-1 CC: HS-ESS3-6 CC: HS-PS2-2 CC: HS-PS3-4 DCI: 4-ESS2-2 DCI: MS-LS1-2	<b>comparison</b>	1-ESS1-2 MS-PS2-2 HS-LS2-1 HS-LS2-2 DCI: MS-LS4-3 SP: K-PS3-1 SP: 1-ESS1-2 SP: 2-LS4-1 SP: HS-ESS2-2 SP: HS-ESS3-5 SP: HS-LS3-3 SP: HS-LS4-3 SP: HS-PS2-1	<b>component</b>	MS-LS2-2 MS-LS2-4 HS-PS3-1 HS-PS3-4 CC: 3-LS4-4 CC: 4-LS1-1 CC: 4-LS1-2 CC: 5-ESS2-1 CC: 5-ESS3-1 CC: 5-LS2-1 CC: HS-ESS2-5 CC: HS-LS1-1 CC: HS-PS2-6 DCI: MS-LS2-4 DCI: HS-LS1-2 DCI: HS-LS2-5 SP: HS-ESS1-1 SP: HS-ESS2-1 SP: HS-ESS2-3 SP: HS-ESS2-4 SP: HS-ESS2-6 SP: HS-LS1-2 SP: HS-LS1-4 SP: HS-LS1-5 SP: HS-LS1-7 SP: HS-LS2-5 SP: HS-PS1-1 SP: HS-PS1-4 SP: HS-PS1-8 SP: HS-PS3-2 SP: HS-PS3-5
<b>causality</b>	CC: HS-LS4-1 CC: HS-LS4-3 CC: HS-PS1-1 CC: HS-PS1-2 CC: HS-PS1-3 CC: HS-PS1-5 CC: HS-PS2-4(a) CC: HS-PS2-4(b)		<b>complex</b>		MS-ESS2-5 MS-LS4-1 MS-PS1-1 HS-ETS1-2 HS-ETS1-3 HS-ETS1-4 HS-LS1-4 HS-LS2-6 CC: MS-LS1-2 CC: MS-LS1-3 CC: MS-LS3-1 CC: HS-PS3-5 CC: HS-PS4-4 DCI: MS-ESS2-5 DCI: MS-LS1-6 DCI: MS-LS1-7 DCI: HS-ESS3-6 DCI: HS-LS1-4 DCI: HS-LS2-2 DCI: HS-LS2-5 DCI: HS-LS2-6 SP: HS-ESS3-4 SP: HS-ETS1-1 SP: HS-ETS1-2 SP: HS-ETS1-3 SP: HS-LS2-7 SP: HS-PS1-6 SP: HS-PS3-3
<b>causation</b>	CC: MS-ESS3-3 SP: MS-ESS1-3 SP: MS-ESS2-3 SP: MS-ESS3-2 SP: MS-ETS1-3 SP: MS-LS2-1 SP: MS-LS4-1 SP: MS-LS4-3 SP: MS-PS1-2 SP: MS-PS3-1				
<b>chart</b>	5-PS3-1 MS-PS2-4 HS-LS2-1 CC: MS-ESS3-2 CC: MS-LS4-1 CC: MS-LS4-3 CC: MS-PS4-1 SP: 5-ESS1-2				



<p><b>computational</b></p>	<p>HS-ESS1-4                      HS-ESS3-3                      HS-ESS3-6                      HS-LS2-1                      HS-PS3-1                      SP: 5                      CC: MS-PS4-3                      SP: 5-ESS2-2                      SP: 5-PS1-2                      SP: LS4-6                      SP: MS-PS4-1                      SP: HS-ESS1-4                      SP: HS-ESS2-2                      SP: HS-ESS3-3                      SP: HS-ESS3-5                      SP: HS-ESS3-6                      SP: HS-ETS1-4                      SP: HS-LS2-1                      SP: HS-LS2-2                      SP: HS-LS2-4                      SP: HS-LS4-6                      SP: HS-PS1-7                      SP: HS-PS2-1                      SP: HS-PS2-2                      SP: HS-PS2-4                      SP: HS-PS3-1                      SP: HS-PS4-1</p>	<p><b>concept</b></p>	<p>HS-LS3-3                      HS-LS4-3                      CC: 3-LS4-3                      CC: 4-ESS3-1                      CC: 4-PS4-3                      CC: HS-LS2-2                      DCI: HS-PS3-1                      DCI: HS-PS3-2                      SP: MS-LS4-6                      SP: MS-PS4-1                      SP: HS-LS3-3                      SP: HS-LS4-3</p>	<p><b>condition</b></p>	<p>K-ESS2-1                      3-ESS2-1                      MS-ESS2-5                      MS-LS1-4                      MS-LS1-5                      HS-LS2-3                      HS-LS2-6                      HS-LS4-5                      HS-PS1-6                      SP: 3                      CC: MS-ESS3-2                      CC: MS-ESS3-3                      CC: MS-ETS1-1                      CC: MS-LS2-5                      CC: MS-PS1-3                      CC: MS-PS2-1                      CC: HS-ESS3-6                      CC: HS-PS2-2                      CC: HS-PS3-4                      DCI: K-ESS2-1                      DCI: 3-5-ETS1-2                      DCI: 3-ESS2-2                      DCI: 4-ESS3-2                      DCI: MS-LS1-5                      DCI: MS-LS4-6                      DCI: MS-PS1-2                      DCI: MS-PS1-3                      DCI: HS-LS1-3                      DCI: HS-LS2-2                      DCI: HS-LS2-6                      DCI: HS-LS4-3                      DCI: HS-LS4-5                      DCI: HS-LS4-6                      DCI: HS-PS1-6                      SP: MS-ESS2-5</p>
	<p><b>computer</b></p>		<p>MS-ESS1-2                      MS-PS1-1                      MS-PS4-2                      MS-PS4-3                      HS-ETS1-4                      HS-PS3-2                      CC: HS-ETS1-4                      CC: HS-LS1-2                      CC: HS-LS1-4                      CC: HS-LS2-5                      CC: HS-PS4-3                      DCI: 4-PS4-3                      DCI: HS-ESS3-6                      DCI: HS-ETS1-4                      DCI: HS-LS4-6                      DCI: HS-PS4-2                      DCI: HS-PS4-5                      SP: HS-ETS1-4</p>		

<b>connection</b>	HS-ESS2-5 HS-PS1-6 CC: MS-PS1-2 CC: MS-PS3-5 CC: HS-PS2-6 SP: MS-LS1-6 SP: MS-LS4-1 SP: MS-PS1-2 SP: MS-PS2-2 SP: MS-PS2-4 SP: Ms-PS3-4 SP: MS-PS3-5 SP: MS-PS4-1	<b>consistent</b>	MS-LS2-2 HS-LS2-6 SP: 6 CC: 3-LS4-1 CC: 4-ESS1-1 CC: 5-PS1-2 CC: MS-ESS1-1 CC: MS-ESS1-2 CC: MS-LS2-3 CC: MS-LS4-1 CC: MS-LS4-2 CC: HS-PS1-7 CC: HS-PS3-1 SP: MS-ESS1-4 SP: MS-ESS2-2 SP: MS-ESS3-1 SP: MS-ESS3-3 SP: MS-LS1-5 SP: MS-LS1-6 SP: MS-LS2-2 SP: MS-LS4-2 SP: MS-LS4-4 SP: MS-PS1-6 SP: MS-PS2-1 SP: MS-PS3-3 SP: HS-ESS1-2 SP: HS-ESS1-6 SP: HS-ESS3-1 SP: HS-ESS3-4 SP: HS-ETS1-2 SP: HS-ETS1-3 SP: HS-LS1-1 SP: HS-LS1-6 SP: HS-LS2-3 SP: HS-LS2-7 SP: HS-LS4-2 SP: HS-LS4-4 SP: HS-PS1-2 SP: HS-PS1-5 SP: HS-PS1-6 SP: HS-PS2-3 SP: HS-PS3-3	<b>constraint</b>	3-5-ETS1-1 3-5-ETS1-2 4-PS3-4 MS-ETS1-1 MS-ETS1-2 MS-LS2-5 HS-ESS2-3 HS-ETS1-1 HS-ETS1-3 HS-ETS1-4 HS-PS3-3 SP: 1 SP: 4 DCI: 3-5-ETS1-1 DCI: 3-5-ETS1-3 DCI: 4-PS3-4 DCI: 4-PS4-3 DCI: MS-ETS1-1 DCI: MS-ETS1-2 DCI: MS-ETS1-3 DCI: MS-LS2-5 DCI: MS-PS3-3 DCI: HS-ESS3-2 DCI: HS-ESS3-4 DCI: HS-ETS1-1 DCI: HS-ETS1-3 DCI: HS-LS2-7 DCI: HS-LS4-6 DCI: HS-PS2-3 SP: 3-5-ETS1-1 SP: 3-5-ETS1-2 SP: 3-ESS3-1 SP: 3-LS4-4 SP: 4-ESS3-2 SP: 4-PS4-3 SP: MS-ETS1-1 SP: MS-PS1-6 SP: HS-ETS1-1
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<b>correlation</b>	SP: 5 CC: MS-ESS3-3 CC: HS-ESS2-4 CC: HS-ESS3-1 CC: HS-LS2-8 CC: HS-LS3-1 CC: HS-LS3-2 CC: HS-LS4-2 CC: HS-LS4-4 CC: HS-LS4-5 CC: HS-LS4-6 CC: HS-PS2-1 CC: HS-PS2-5 CC: HS-PS4-1 SP: MS-ESS1-3 SP: MS-ESS2-3 SP: MS-ESS3-2 SP: MS-ETS1-3 SP: MS-LS2-1 SP: MS-LS4-1 SP: MS-LS4-3 SP: MS-PS1-2 SP: MS-PS3-1 SP: HS-LS3-3 SP: HS-LS4-3	<b>cost</b>	3-5-ETS1-1 4-PS3-4 HS-ESS3-3 HS-ETS1-3 SP: 6 CC: HS-ESS2-2 CC: HS-ESS3-2 CC: HS-ETS1-1 CC: HS-ETS1-3 CC: HS-PS3-3 CC: HS-PS4-2 DCI: HS-ESS3-2 DCI: HS-ESS3-4 DCI: HT-ETS1-3 DCI: HS-LS2-7 DCI: HS-LS4-6 SP: 3-5-ETS1-1 SP: HS-ESS2-5 SP: HS-LS1-3 SP: HS-PS1-3 SP: HS-PS2-5 SP: HS-PS3-4	<b>criteria</b>	DCI: HS-PS1-6 DCI: HS-PS2-3 DCI: HS-PS3-3 SP: 3-5-ETS1-1 SP: 3-5-ETS1-2 SP: 3-ESS3-1 SP: 3-LS4-4 SP: 4-ESS3-2 SP: 4-PS4-3 SP: MS-ETS1-1 SP: MS-ETS1-2 SP: MS-LS2-5 SP: MS-PS1-6 SP: HS-ESS3-4 SP: HS-ETS1-1 SP: HS-ETS1-2 SP: HS-ETS1-3 SP: HS-LS2-7 SP: HS-PS1-6 SP: HS-PS3-3
			<b>criteria</b>		BBK 3-5-ETS1-1 3-5-ETS1-2 MS-ETS1-1 MS-ETS1-2 MS-ETS1-3 HS-ETS1-1 HS-ETS1-3 HS-ETS1-4 SP: 1 SP: 4 SP: 6 DCI: 3-5-ETS1-1 DCI: 3-5-ETS1-3 DCI: 4-PS3-4 DCI: 4-PS4-3 DCI: MS-ETS1-1 DCI: MS-ETS1-2 DCI: MS-ETS1-3 DCI: MS-LS2-5 DCI: MS-PS3-3 DCI: HS-ETS1-1 DCI: HS-ETS1-2

<b>data (cont'd)</b>	HS-ESS3-5	<b>data</b>	SP: 5-LS1-1	<b>data</b>	SP: HS-PS3-4
	HS-LS2-1		SP: 5-PS1-1		SP: HS-PS4-1
	HS-LS2-2		SP: 5-PS1-2		SP: HS-PS4-2
	HS-LS3-2		SP: 5-PS1-3	SP: HS-PS4-4	
	HS-PS2-1		SP: 5-PS1-4	<b>decision</b>	MS-ESS3-4
	HS-PS3-4		SP: 5-PS2-1		CC: MS-ESS3-4
	HS-PS4-1		SP: MS-ESS1-3		CC: MS-LS2-5
	SP: 3		SP: MS-ESS2-3		CC: MS-LS4-5
	SP: 4		SP: MS-ESS2-5		CC: HS-ESS2-2
	SP: 5		SP: ETS1-3		CC: HS-ESS3-2
	CC: MS-LS4-1		SP: ETS1-4		CC: HS-ETS1-1
	CC: MS-LS4-3		SP: MS-LS1-1		CC: HS-ETS1-3
	CC: MS-PS4-1		SP: MS-LS2-1		DCI: MS-ESS3-5
	CC: MS-ESS3-2		SP: MS-LS4-1		DCI: HS-ETS1-2
	CC: HS-ESS1-4		SP: MS-LS4-3		DCI: HS-PS1-6
	CC: HS-ESS3-5		SP: MS-LS4-6	DCI: HS-PS2-3	
	CC: HS-LS3-3		SP: MS-PS1-2	<b>description</b>	K-ESS2-1
	SP: K-2-ETS1-3		SP: MS-PS2-2		5-PS2-1
	SP: K-ESS2-1		SP: MS-PS2-5		MS-PS3-2
	SP: K-LS1-1		SP: MS-PS3-1		MS-PS4-2
	SP: K-PS2-1		SP: MS-PS3-4		HS-PS1-6
	SP: K-PS2-2		SP: MS-PS4-1		HS-PS2-4
	SP: K-PS3-1		SP: HS-ESS1-4		HS-PS3-2
	SP: 1-ESS1-1		SP: HS-ESS1-6		HS-PS4-4
	SP: 1-ESS1-2		SP: HS-ESS2-2		SP: MS-PS1-5
	SP: 1-PS4-1		SP: HS-ESS2-5		SP: HS-PS2-1
	SP: 1-PS4-3		SP: HS-ESS2-7	SP: HS-PS2-4	
	SP: 2-LS2-1		SP: HS-ESS3-3	<b>design (noun)</b>	2-ESS2-1
	SP: 2-LS4-1		SP: HS-ESS3-5		MS-ESS3-3
	SP: 2-PS1-1		SP: HS-ESS3-6		MS-ETS1-4
	SP: 2-PS1-2		SP: HS-ETS1-4		MS-PS1-6
	SP: 3-5-ETS1-3		SP: HS-LS1-3		MS-PS2-5
	SP: 3-ESS2-1		SP: HS-LS2-1		MS-PS3-3
SP: 3-LS2-1	SP: HS-LS2-2	HS-PS1-6			
SP: 3-LS3-1	SP: HS-LS2-4	HS-PS2-3			
SP: 3-LS4-1	SP: HS-LS3-3	SP: 2			
SP: 3-PS2-1	SP: HS-LS4-3	SP: 3			
SP: 3-PS2-2	SP: HS-LS4-6	SP: 4			
SP: 4-ESS2-1	SP: HS-PS1-3	SP: 5			
SP: 4-ESS2-2	SP: HS-PS1-7	SP: 6			
SP: 4-LS1-1	SP: HS-PS2-1	SP: 7			
SP: 4-PS3-2	SP: HS-PS2-2	SP: 8			
SP: 5-ESS1-1	SP: HS-PS2-4(a)	CC: HS-PS3-3			
SP: 5-ESS1-2	SP: HS-PS2-4(b)	CC: HS-PS4-2			
SP: 5-ESS2-2	SP: HS-PS2-5	DCI: K-2-ETS1-2			

<b>design (noun) (cont'd)</b>	DCI: K-2-ETS1-3	<b>design (noun)</b>	SP: HS-PS4-2	<b>design solution</b>	SP: 4-ESS3-2
	DCI: K-ESS3-3		SP: HS-PS4-4		SP: 4-LS1-2
	DCI: 2-ESS2-1	SP: HS-PS4-5	SP: 4-PS3-2		
DCI: 2-LS2-2	<b>design problem</b>	3-PS2-4	SP: 4-PS4-1		
DCI: 3-5-ETS1-2		3-5-ETS1-1	SP: 4-PS4-2		
DCI: 3-5-ETS1-3		MS-ETS1-1	SP: 4-PS4-3		
DCI: MS-ETS1-1		SP: 3-5-ETS1-1	SP: 5-ESS2-1		
DCI: MS-PS1-6		SP: 3-5-ETS1-2	SP: 5-ESS2-2		
DCI: HS-ETS1-1		SP: 3-LS3-2	SP: 5-LS2-1		
DCI: HS-ETS1-4		SP: 3-LS4-2	SP: 5-PS1-1		
DCI: HS-LS4-6		SP: 4-ESS1-1	SP: 5-PS1-2		
DCI: HS-PS2-3		SP: 4-ESS3-2	SP: 5-PS1-3		
DCI: HS-PS3-3		SP: 4-PS3-1	SP: 5-PS1-4		
SP: MS-ETS1-1		SP: 4-PS3-4	SP: 5-PS3-1		
SP: MS-ETS1-3		SP: 4-PS4-3	SP: MS-ESS2-5		
SP: MS-PS1-1		SP: 5-ESS3-1	SP: MS-ETS1-2		
SP: MS-PS1-4		SP: MS-ETS1-1	SP: MS-LS2-5		
SP: MS-PS1-5		SP: HS-ETS1-1	SP: MS-LS4-6		
SP: MS-PS1-6		SP: HS-LS3-1	SP: MS-PS2-2		
SP: HS-ESS1-2		SP: HS-PS1-5	SP: MS-PS2-5		
SP: HS-ESS1-3		SP: HS-PS2-3	SP: MS-PS3-4		
SP: HS-ESS1-6	SP: HS-PS4-2	SP: MS-PS4-1			
SP: HS-ESS2-5	<b>design solution</b>	K-PS2-2	SP: HS-ESS2-2		
SP: HS-ESS3-1		3-ESS3-1	SP: HS-ESS3-2		
SP: HS-ESS3-2		MS-ETS1-2	SP: HS-ESS3-6		
SP: HS-ESS3-4		MS-ETS1-3	SP: HS-ETS1-4		
SP: HE-ETS1-2		MS-LS2-5	SP: HS-LS2-1		
SP: HE-ETS1-3		HS-ESS3-2	SP: HS-LS2-2		
SP: HS-LS1-1		HS-ESS3-4	SP: HS-LS2-4		
SP: HS-LS1-3		DCI: 2-ESS2-1	SP: HS-PS2-1		
SP: HS-LS1-6		SP: K-2-ETS1-2	SP: HS-PS4-1		
SP: HS-LS2-3		SP: K-ESS3-1	<b>designed [by humans; human-made]</b>		
SP: HS-LS2-7		SP: K-PS2-1		K-2-ETS1-3	
SP: HS-LS4-1		SP: K-PS3-1		2-ESS2-1	
SP: HS-LS4-2		SP: 1-PS4-1		HS-PS2-6	
SP: HS-LS4-4		SP: 1-PS4-3		CC: K-2-ETS1-2	
SP: HS-PS1-2		SP: 2-ESS2-2		CC: K-ESS2-2	
SP: HS-PS1-3		SP: 2-LS2-1		CC: K-ESS3-1	
SP: HS-PS1-5		SP: 2-LS2-2		CC: K-LS1-1	
SP: HS-PS1-6		SP: 2-LS4-1		CC: 1-LS1-1	
SP: HS-PS2-3	SP: 3-5-ETS1-3	CC: 2-LS2-2			
SP: HS-PS2-5	SP: 3-LS1-1	CC: 2-PS1-1			
SP: HS-PS2-6	SP: 3-PS2-1	CC: 4-PS4-3			
SP: HS-PS3-3	SP: 3-PS2-2	CC: MS-ESS2-1			
SP: HS-PS3-4	SP: 4-ESS2-1	CC: MS-ESS2-4			
		CC: MS-ESS2-5			

<b>designed [by humans; human-made] (cont'd)</b>	CC: MS-ESS3-1	<b>designed [by humans; human-made]</b>	SP: HS-ESS3-6	<b>difference</b>	3-LS3-1
	CC: MS-ESS3-4		SP: HS-LS1-2		5-ESS1-1
	CC: MS-LS2-1		SP: HS-LS1-4		MS-ESS1-3
	CC: MS-PS1-4		SP: HS-LS1-5		MS-ETS1-3
	CC: MS-PS1-6		SP: HS-LS1-7		MS-LS4-2
	CC: MS-PS2-1		SP: HS-LS2-5		HS-LS4-4
	CC: MS-PS2-2		SP: HS-LS2-6		CC: 3-LS3-1
	CC: MS-PS2-4		SP: HS-LS2-8		CC: 4-PS4-1
	CC: MS-PS3-3		SP: HS-LS3-2		CC: 4-PS4-3
	CC: HS-ESS2-5		SP: HS-LS4-5		CC: 5-ESS1-2
	CC: HS-PS3-5		SP: HS-LS4-6		CC: MS-ESS2-1
	CC: HS-PS4-4	SP: HS-PS1-1	CC: MS-ESS3-2		
	DCI: 3-5-ETS1-1	SP: HS-PS1-4	CC: MS-ESS3-3		
	DCI: 4-PS3-4	SP: HS-PS1-8	CC: MS-ETS1-1		
	DCI: MS-ETS1-1	SP: HS-PS3-1	CC: MS-LS2-5		
	DCI: MS-PS3-3	SP: HS-PS3-2	CC: MS-PS1-3		
	SP: K-2-ETS1-1	SP: HS-PS3-5	CC: MS-PS2-1		
	SP: K-ESS2-2	SP: HS-PS4-3	DCI: 3-LS4-2		
	SP: K-ESS3-2	SP: 1	DCI: MS-LS3-2		
	SP: 2-PS1-4	CC: MS-ESS3-2	DCI: MS-LS4-2		
	SP: 3-ESS3-1	CC: MS-ESS3-3	DCI: MS-PS1-4		
	SP: 3-LS2-1	CC: MS-ETS1-1	DCI: HS-LS4-1		
	SP: 3-LS4-3	CC: MS-LS2-5	DCI: HS-LS4-2		
	SP: 4-LS1-1	CC: MS-PS1-3	DCI: HS-LS4-3		
	SP: 5-ESS1-1	CC: MS-PS2-1	SP: MS-ESS1-3		
	SP: 5-LS1-1	4-PS4-1	SP: MS-ESS3-2		
	SP: 5-PS2-1	5-PS3-1	SP: MS-ETS1-3		
	SP: MS-ESS3-4	MS-ESS2-5	SP: MS-LS4-1		
	SP: MS-ETS1-2	MS-ESS2-6	SP: MS-PS1-2		
	SP: MS-ETS1-4	MS-LS3-2	MS-ESS2-6		
	SP: MS-LS1-3	MS-LS4-3	MS-PS1-5		
	SP: MS-LS1-4	MS-PS1-4	MS-PS2-4		
	SP: MS-LS2-4	MS-PS3-2	MS-PS4-3		
SP: MS-LS2-5	HS-LS1-5	HS-PS4-2			
SP: MS-PS2-4	HS-PS1-4	SP: 3-ESS2-1			
SP: MS-PS3-5	HS-PS1-8	SP: 3-LS3-1			
SP: HS-ESS1-1	HS-PS3-2	SP: 3-LS4-1			
SP: HS-ESS1-5	HS-PS3-5	SP: 4-ESS2-2			
SP: HS-ESS2-1	SP: K-2-ETS1-2	SP: 5-ESS1-2			
SP: HS-ESS2-3	SP: K-ESS3-1	SP: HS-LS3-3			
SP: HS-ESS2-4	SP: 2-ESS2-2	SP: HS-LS4-3			
SP: HS-ESS2-6	SP: 2-LS2-2				
SP: HS-ESS2-7					
SP: HS-ESS3-2					
SP: HS-ESS3-3					
		<b>digital</b>			

<b>discovery</b>	MS-LS4-5 CC: 3-PS2-4 CC: MS-ESS1-3 CC: MS-LS1-1 CC: MS-LS4-5 CC: MS-PS1-3 DCI: HS-ESS3-6		MS-LS3-1 MS-LS3-2 MS-PS2-3 HS-ESS2-5 HS-ESS2-7 HS-LS4-5 HS-PS1-5 HS-PS4-3 HS-PS4-4		CC: HS-LS4-2 CC: HS-LS4-4 CC: HS-LS4-5 CC: HS-LS4-6 CC: HS-PS2-1 CC: HS-PS2-3 CC: HS-PS2-5 CC: HS-PS3-5 CC: HS-PS4-1 CC: HS-PS4-4 CC: HS-PS4-5
<b>distance</b>	BBK K-PS2-2 1-PS4-4 3-PS2-3 5-ESS1-1 MS-ESS1-2 MS-PS2-4 MS-PS3-2 HS-ESS1-5 CC: MS-PS3-1 CC: MS-PS3-4 DCI: 1-PS4-4 DCI: 3-PS2-3 DCI: 3-PS2-4 DCI: 4-PS4-3 DCI: 5-ESS1-1 DCI: MS-ESS2-3 DCI: MS-PS2-3 DCI: MS-PS2-5 DCI: HS-ESS1-2 DCI: HS-ESS1-3 DCI: HS-PS2-4(a) DCI: HS-PS2-4(b) DCI: HS-PS2-5 DCI: HS-PS4-2 DCI: HS-PS4-5	<b>effect</b>	CC: 3-ESS3-1 CC: 3-LS2-1 CC: 3-LS3-2 CC: 3-LS4-2 CC: 3-LS4-3 CC: 3-PS2-1 CC: 3-PS2-3 CC: 4-ESS2-1 CC: 4-ESS3-1 CC: 4-ESS3-2 CC: 4-PS4-2 CC: 5-PS1-4 CC: 5-PS2-1 CC: MS-ESS1-1 CC: MS-ESS2-5 CC: MS-ESS3-1 CC: MS-ESS3-4 CC: MS-LS1-4 CC: MS-LS1-5 CC: MS-LS1-8 CC: MS-LS2-1 CC: MS-LS2-2 CC: MS-LS3-2 CC: MS-LS4-2 CC: MS-LS4-4 CC: MS-LS4-5	<b>effect</b>	DCI: HS-PS4-6 DCI: HS-PS2-1 DCI: HS-PS2-3 DCI: HS-PS2-5 DCI: HS-PS3-5 DCI: HS-PS4-1 DCI: HS-PS4-4 DCI: HS-PS4-5 DCI: 5-ESS3-1 DCI: 5-PS1-1 DCI: MS-PS2-5 DCI: HS-ESS1-4 DCI: HS-ESS2-1 DCI: HS-ESS2-2 DCI: HS-PS2-4(a) DCI: HS-PS2-4(b) SP: 2-PS1-4 SP: 3-PS2-3 SP: 4-PS3-3 SP: HS-ETS1-4 SP: HS-PS1-5 SP: HS-PS2-3
<b>effect</b>	BBK K-PS2-1 K-PS3-1 K-PS3-2 1-PS4-3 3-LS4-2 3-PS2-1 3-PS2-3 4-ESS2-1 4-ESS3-1 MS-ESS3-2 MS-LS2-1		CC: MS-PS2-3 CC: MS-PS2-5 CC: HS-ESS1-4 CC: HS-ESS2-4 CC: HS-ESS3-1 CC: HS-LS2-8 CC: HS-LS3-1 CC: HS-LS3-2 CC: HS-LS3-3		

<b>empirical</b>	BBK	<b>energy</b>	4-PS3-4	<b>energy</b>	CC: MS-LS2-3
	MS-LS1-4		5-PS3-1		CC: MS-PS1-1
	MS-LS2-4		MS-ESS2-1		CC: MS-PS1-5
	MS-PS1-1		MS-ESS2-4		CC: MS-PS1-6
	MS-PS1-4		MS-ESS3-1		CC: MS-PS2-1
	MS-PS1-6		MS-ESS3-4		CC: MS-PS2-4
	MS-PS3-5		MS-LS1-6		CC: MS-PS3-2
	HS-LS4-1		MS-LS1-7		CC: MS-PS3-3
	SP: 1		MS-LS2-3		CC: MS-PS3-5
	CC: 5-ESS3-1		MS-PS1-6		CC: HS-ESS1-2
	CC: HS-ESS1-5		MS-PS3-1		CC: HS-ESS1-3
	CC: HS-ESS2-4		MS-PS3-2		CC: HS-ESS2-3
	CC: HS-ESS3-1		MS-PS3-3		CC: HS-ESS2-6
	CC: HS-LS2-8		MS-PS3-4		CC: HS-ETS1-4
	CC: HS-LS3-1		MS-PS3-5		CC: HS-LS1-2
	CC: HS-LS3-2		MS-PS4-1		CC: HS-LS1-4
	CC: HS-LS4-2		HS-ESS1-1		CC: HS-LS1-5
	CC: HS-LS4-4		HS-ESS2-4		CC: HS-LS1-6
	CC: HS-LS4-5		HS-ESS3-2		CC: HS-LS1-7
	CC: HS-LS4-6		HS-LS1-5		CC: HS-LS2-3
	CC: HS-PS2-1		HS-LS1-7		CC: HS-LS2-4
	CC: HS-PS2-5		HS-LS2-3		CC: HS-LS2-5
	CC: HS-PS3-4		HS-LS2-4		CC: HS-PS1-4
	CC: HS-PS4-1		HS-PS1-1		CC: HS-PS1-7
	SP: MS-ESS3-4		HS-PS1-4		CC: HS-PS3-2
	SP: MS-LS1-4		HS-PS1-5		CC: HS-PS3-3
	SP: MS-LS2-4		HS-PS1-8		CC: HS-PS4-3
	SP: MS-PS2-4		HS-PS3-1		DCI: 4-ESS3-1
	SP: MS-PS3-5		HS-PS3-2		DCI: 4-PS3-1
	SP: HE-ESS2-3		HS-PS3-3		DCI: 4-PS3-2
	SP: HS-ESS2-5		HS-PS3-4		DCI: 4-PS3-3
SP: HS-ESS3-2	HS-PS3-5	DCI: 4-PS3-4			
SP: HS-ESS3-5	HS-PS4-4	DCI: 5-PS3-1			
SP: HS-ETS1-1	HS-PS4-5	DCI: MS-ESS2-1			
SP: HS-LS1-3	CC: 4-PS3-1	DCI: MS-ESS2-6			
SP: HS-LS3-1	CC: 4-PS3-2	DCI: MS-LS1-6			
SP: HS-PS1-3	CC: 4-PS3-3	DCI: MS-LS1-7			
SP: HS-PS2-5	CC: 4-PS3-4	DCI: MS-LS2-3			
SP: HS-PS3-4	CC: 5-LS1-1	DCI: MS-LS2-5			
SP: HS-PS4-2	CC: 5-PS3-1	DCI: MS-PS1-4			
	CC: MS-ESS1-3	DCI: MS-PS1-6			
<b>energy</b>	CC: MS-ESS1-4	DCI: MS-PS3-1			
BBK	CC: MS-ESS2-2	DCI: MS-PS3-2			
4-ESS3-1	CC: MS-ESS2-4	DCI: MS-PS3-3			
4-PS3-1	CC: MS-ESS2-6	DCI: MS-PS3-4			
4-PS3-2					
4-PS3-3					



<p><b>energy</b> <b>(cont'd)</b></p>	<p>DCI: MS-PS3-5 DCI: HS-ESS1-1 DCI: HS-ESS1-2 DCI: HS-ESS1-3 DCI: HS-ESS2-3 DCI: HS-ESS2-4 DCI: HS-ESS2-5 DCI: HS-ESS3-2 DCI: HS-ETS1-1 DCI: HS-LS1-5 DCI: HS-LS1-6 DCI: HS-LS1-7 DCI: HS-LS2-3 DCI: HS-LS2-4 DCI: HS-LS2-5 DCI: HS-PS1-4 DCI: HS-PS1-5 DCI: HS-PS1-8 DCI: HS-PS2-4(a) DCI: HS-PS2-4(b) DCI: HS-PS2-5 DCI: HS-PS3-1 DCI: HS-PS3-2 DCI: HS-PS3-3 DCI: HS-PS3-4 DCI: HS-PS3-5 DCI: HS-PS4-4 DCI: HS-PS4-5</p>	<p><b>engineering</b></p>	<p>HS-ETS1-2 HS-PS2-3 SP: 1 SP: 2 SP: 5 SP: 6 CC: 3-5-ETS1-2 CC: 3-ESS3-1 CC: 3-LS4-3 CC: 3-LS4-4 CC: 3-PS2-4 CC: 4-ESS3-1 CC: 4-PS3-4 CC: 4-PS4-3 CC: MS-ESS1-3 CC: MS-LS1-1 CC: MS-LS4-5 CC: MS-PS1-3 CC: HS-ESS1-2 CC: HS-ESS1-4 CC: HS-ESS2-3 CC: HS-ESS3-2 CC: HS-ESS3-4 CC: HS-LS3-3 CC: HS-PS3-3 CC: HS-PS4-2 CC: HS-PS4-5 DCI: K-2-ETS1-1 DCI: K-PS2-2 DCI: 3-5-ETS1-1 DCI: 4-ESS3-2 DCI: 4-PS3-4 DCI: MS-ESS3-5 DCI: MS-PS3-3 DCI: HS-ETS1-1 DCI: HS-ETS1-4 DCI: HS-LS4-6 DCI: HS-PS3-3 SP: 5-PS1-2 SP: HS-LS3-3 SP: HS-LS4-3</p>	<p><b>episode</b></p>	<p>SP: HS-ESS1-5 SP: HS-ESS2-7 SP: HS-ESS3-2 SP: HS-LS2-6 SP: HS-LS2-8 SP: HS-LS3-2 SP: HS-LS4-5 SP: HS-PS4-3</p>
	<p><b>event</b></p>		<p>2-ESS1-1 MS-ESS1-4 MS-ESS2-2 MS-ESS3-2 CC: K-ESS3-2 CC: K-ESS3-3 CC: K-PS3-1 CC: K-PS3-2 CC: 1-ESS1-1 CC: 2-LS2-1 CC: 2-PS1-4 CC: MS-ESS1-1 CC: MS-ESS1-2 CC: MS-ESS3-5 CC: MS-LS2-3 CC: MS-LS4-1 CC: MS-LS4-2 DCI: K-ESS3-2 DCI: 2-ESS1-1 DCI: MS-ESS3-1 DCI: MS-ESS3-2 DCI: HS-ESS2-4 SP: K-2-ETS1-2 SP: K-ESS3-1 SP: 2-ESS2-2 SP: 2-LS2-2 SP: 2-PS1-4 SP: 3-LS1-1 SP: 4-LS1-2 SP: 4-PS4-1 SP: 4-PS4-2 SP: 5-ESS2-1 SP: 5-LS2-1 SP: 5-PS1-1 SP: 5-PS3-1 SP: MS-LS4-2</p>		

<b>evidence</b>	BBK	<b>evidence</b>	HS-ESS2-3	<b>evidence</b>	CC: HS-ESS2-3
	K-ESS2-2		HS-ESS2-5		CC: HS-ESS2-4
	1-LS3-1		HS-ESS2-7		CC: HS-ESS3-5
	1-PS4-1		HS-ESS3-1		CC: HS-LS2-8
	1-PS4-2		HS-ESS3-5		CC: HS-LS3-1
	2-ESS1-1		HS-LS1-1		CC: HS-LS3-2
	2-PS1-3		HS-LS1-3		CC: HS-LS4-1
	2-PS1-4		HS-LS1-6		CC: HS-LS4-2
	3-LS3-1		HS-LS2-2		CC: HS-LS4-4
	3-LS3-2		HS-LS2-3		CC: HS-LS4-5
	3-LS4-1		HS-LS2-6		CC: HS-LS4-6
	3-LS4-2		HS-LS2-8		CC: HS-PS1-1
	3-LS4-3		HS-LS3-2		CC: HS-PS1-2
	3-PS2-1		HS-LS4-1		CC: HS-PS1-3
	3-PS2-2		HS-LS4-2		CC: HS-PS1-5
	4-ESS1-1		HS-LS4-3		CC: HS-PS2-1
	4-ESS2-1		HS-LS4-4		CC: HS-PS2-4(a)
	4-PS3-1		HS-LS4-5		CC: HS-PS2-4(b)
	4-PS3-2		HS-PS1-3		CC: HS-PS2-5
	5-ESS2-2		HS-PS1-5		CC: HS-PS4-1
	5-PS1-1		HS-PS2-5		DCI: 3-LS4-1
	5-PS1-2		HS-PS3-4		DCI: HS-ESS2-3
	MS-ESS1-4		HS-PS4-3		DCI: HS-ESS3-1
	MS-ESS2-2		SP: 6		DCI: HS-LS4-1
	MS-ESS2-3		SP: 7		SP: K-2-ETS1-2
	MS-ESS2-5		CC: K-ESS2-1		SP: K-ESS2-2
	MS-ESS3-1		CC: K-LS1-1		SP: K-PS3-2
	MS-ESS3-4		CC: K-PS2-1		SP: 1-LS1-1
	MS-ESS3-5		CC: K-PS2-2		SP: 1-LS3-1
	MS-LS1-1		CC: 1-ESS1-1		SP: 1-PS4-1
	MS-LS1-3		CC: 1-ESS1-2		SP: 1-PS4-2
	MS-LS1-4		CC: 1-LS1-2		SP: 1-PS4-3
	MS-LS1-5		CC: 1-LS3-1		SP: 1-PS4-4
	MS-LS1-6		CC: 1-PS4-1		SP: 2-ESS1-1
	MS-LS2-1		CC: 1-PS4-2		SP: 2-ESS2-1
	MS-LS2-4		CC: 1-PS4-3		SP: 2-LS2-1
	MS-LS4-4		CC: 2-PS1-2		SP: 2-LS2-2
	MS-PS2-2		CC: 4-ESS1-1		SP: 2-PS1-1
	MS-PS2-4		CC: 4-ESS2-2		SP: 2-PS1-3
	MS-PS2-5		CC: 5-ESS3-1		SP: 2-PS1-4
MS-PS3-5	CC: MS-PS1-2	SP: 3-5-ETS1-2			
HS-ESS1-1	CC: MS-PS4-1	SP: 3-5-ETS1-3			
HS-ESS1-2	CC: HS-ESS1-2	SP: 3-ESS3-1			
HS-ESS1-5	CC: HS-ESS1-5	SP: 3-LS2-1			
HS-ESS1-6	CC: HS-ESS1-6	SP: 3-LS3-2			

<b>evidence (cont'd)</b>	SP: 3-LS4-2	<b>evidence</b>	SP: MS-PS2-5	<b>evidence</b>	SP: HS-PS3-3
	SP: 3-LS4-3		SP: MS-PS3-3		SP: HS-PS3-4
	SP: 3-LS4-4		SP: MS-PS3-4	SP: HS-PS3-5	
	SP: 3-PS2-1		SP: MS-PS3-5	SP: HS-PS4-3	
	SP: 3-PS2-2		SP: MS-PS4-1	BBK	
	SP: 4-ESS1-1		SP: HS-ESS1-1	MS-ESS2-5	
	SP: 4-ESS2-1		SP: HS-ESS1-2	MS-PS3-4	
	SP: 4-ESS3-2		SP: HS-ESS1-5	HS-ESS2-3	
	SP: 4-LS1-1		SP: HS-ESS1-6	SP: MS-ESS1-4	
	SP: 4-PS3-1		SP: HS-ESS2-1	SP: MS-ESS2-2	
	SP: 4-PS3-2		SP: HS-ESS2-3	SP: MS-ESS3-1	
	SP: 4-PS4-3		SP: HS-ESS2-4	SP: MS-LS1-5	
	SP: 5-ESS1-1		SP: HS-ESS2-5	SP: MS-LS1-6	
	SP: 5-LS1-1		SP: HS-ESS2-6	SP: HS-ESS1-2	
	SP: 5-PS1-3		SP: HS-ESS2-7	SP: HS-ESS1-6	
	SP: 5-PS1-3		SP: HS-ESS3-1	SP: HS-LS4-1	
	SP: 5-PS1-4		SP: HS-ESS3-2	SP: HS-PS4-3	
	SP: 5-PS2-1		SP: HS-ESS3-4	3-LS3-2	
	SP: MS-ESS1-4		SP: HS-ESS3-5	3-LS4-2	
	SP: MS-ESS2-3		SP: HS-ETS1-2	4-ESS1-1	
SP: MS-ESS2-5	SP: HS-ETS1-3	4-PS3-1			
SP: MS-ESS3-1	SP: HS-LS1-1	5-LS2-1			
SP: MS-ESS3-3	SP: HS-LS1-2	MS-ESS1-4			
SP: MS-ESS3-4	SP: HS-LS1-3	MS-ESS2-2			
SP: MS-ESS3-5	SP: HS-LS1-4	MS-ESS3-1			
SP: MS-ETS1-2	SP: HS-LS1-5	MS-LS1-4			
SP: MS-LS1-1	SP: HS-LS1-7	MS-LS1-5			
SP: MS-LS1-3	SP: HS-LS2-2	MS-LS1-6			
SP: MS-LS1-4	SP: HS-LS2-3	MS-LS2-2			
SP: MS-LS1-5	SP: HS-LS2-5	MS-LS4-2			
SP: MS-LS1-6	SP: HS-LS2-6	MS-LS4-4			
SP: MS-LS1-8	SP: HS-LS2-7	MS-LS4-6			
SP: MS-LS2-1	SP: HS-LS2-8	HS-ESS1-2			
SP: MS-LS2-2	SP: HS-LS3-2	HS-ESS3-1			
SP: MS-LS2-4	SP: HS-LS4-1	HS-LS1-1			
SP: MS-LS2-5	SP: HS-PS1-1	HS-LS1-6			
SP: MS-LS4-1	SP: HS-PS1-2	HS-LS2-1			
SP: MS-LS4-2	SP: HS-PS1-3	HS-LS2-2			
SP: MS-LS4-4	SP: HS-PS1-4	HS-LS2-3			
SP: MS-LS4-5	SP: HS-PS1-5	HS-LS4-2			
SP: MS-PS1-3	SP: HS-PS1-6	HS-LS4-3			
SP: MS-PS1-6	SP: HS-PS1-8	HS-LS4-4			
SP: MS-PS2-1	SP: HS-PS2-3	HS-PS1-2			
SP: MS-PS2-2	SP: HS-PS2-5	HS-PS1-5			
SP: MS-PS2-4	SP: HS-PS3-2	SP: 2			
		<b>experiment</b>			
		<b>explanation</b>			

<b>explanation (cont'd)</b>	SP: 3	<b>explanation</b>	SP: 4-ESS1-1	<b>explanation</b>	SP: HS-ESS1-5
	SP: 6		SP: 4-ESS2-1		SP: HS-ESS1-6
	SP: 7		SP: 4-ESS3-2		SP: HS-ESS2-3
	CC: 4-ESS1-1		SP: 4-LS1-1		SP: HS-ESS2-4
	CC: 4-ESS2-2		SP: 4-PS3-1		SP: HS-ESS2-7
	CC: MS-ESS2-1		SP: 4-PS3-2		SP: HS-ESS3-1
	CC: MS-PS2-2		SP: 4-PS3-4		SP: HS-ESS3-2
	CC: HS-ESS1-6		SP: 4-PS4-3		SP: HS-ESS3-4
	CC: HS-ESS2-7		SP: 5-ESS1-1		SP: HS-ESS3-6
	CC: HS-LS2-6		SP: 5-LS1-1		SP: HS-ETS1-2
	CC: HS-LS2-7		SP: 5-LS2-1		SP: HS-ETS1-3
	CC: HS-LS4-1		SP: 5-PS1-3		SP: HS-LS1-1
	CC: HS-LS4-3		SP: 5-PS1-4		SP: HS-LS1-6
	CC: HS-PS1-1		SP: 5-PS2-1		SP: HS-LS2-1
	CC: HS-PS1-2		SP: MS-ESS1-4		SP: HS-LS2-2
	CC: HS-PS1-3		SP: MS-ESS2-2		SP: HS-LS2-3
	CC: HS-PS1-5		SP: MS-ESS2-5		SP: HS-LS2-6
	CC: HS-PS1-6		SP: MS-ESS3-1		SP: HS-LS2-7
	CC: HS-PS2-4		SP: MS-ESS3-3		SP: HS-LS2-8
	SP: K-PS2-1		SP: MS-ESS3-4		SP: HS-LS3-2
	SP: K-PS3-1		SP: MS-ETS1-2		SP: HS-LS4-1
	SP: K-PS3-2		SP: MS-LS1-1		SP: HS-LS4-2
	SP: 1-ESS1-2		SP: MS-LS1-3		SP: HS-LS4-4
	SP: 1-LS1-1		SP: MS-LS1-4		SP: HS-PS2-1
	SP: 1-LS3-1		SP: MS-LS1-5		SP: HS-PS2-3
	SP: 1-PS4-1		SP: MS-LS1-6		SP: HS-PS2-4(a)
	SP: 1-PS4-2		SP: MS-LS2-2		SP: HS-PS2-4(b)
	SP: 1-PS4-3		SP: MS-LS2-4		SP: HS-PS3-3
	SP: 1-PS4-4		SP: MS-LS2-5		SP: HS-PS4-1
	SP: 2-ESS1-1		SP: MS-LS4-1		SP: HS-PS4-3
	SP: 2-ESS2-1		SP: MS-LS4-2		
	SP: 2-LS2-1		SP: MS-LS4-4		
	SP: 2-LS4-1		SP: MS-LS4-6		
	SP: 2-PS1-1		SP: MS-PS1-2		
	SP: 2-PS1-3		SP: MS-PS1-6		
	SP: 3-5-ETS1-2		SP: MS-PS2-1		
	SP: 3-5-ETS1-3		SP: MS-PS2-2		
	SP: 3-ESS3-1		SP: MS-PS2-4		
	SP: 3-LS2-1		SP: MS-PS2-5		
	SP: 3-LS3-2		SP: MS-PS3-3		
	SP: 3-LS4-2		SP: MS-PS3-4		
	SP: 3-LS4-3		SP: MS-PS3-5		
	SP: 3-LS4-4		SP: MS-PS4-1		
	SP: 3-PS2-1		SP: HS-ESS1-2		
	SP: 3-PS2-2		SP: HS-ESS1-4		

<b>exponential</b>	CC: HS-ESS1-4 CC: HS-LS3-3 DCI: HS-ESS1-5 DCI: HS-ESS1-6 SP: HS-ESS1-4 SP: HS-ESS3-3 SP: HS-ESS3-6 SP: HS-ETS1-4 SP: HS-LS2-1 SP: HS-LS2-2 SP: HS-LS2-4 SP: HS-LS4-6 SP: HS-PS1-2 SP: HS-PS1-5 SP: HS-PS1-6 SP: HS-PS1-7 SP: HS-PS2-2 SP: HS-PS2-4(a) SP: HS-PS2-4(b) SP: HS-PS3-1 SP: HS-PS4-1	<b>factor</b>	MS-ESS3-5 MS-LS1-5 MS-PS1-6 MS-PS2-3 HS-ESS2-7 HS-ESS3-3 HS-LS2-1 HS-LS2-2 HS-LS3-2 HS-LS3-3 HS-LS4-2 CC: MS-ESS3-2 CC: MS-ESS3-3 CC: MS-ETS1-1 CC: MS-LS2-5 CC: MS-PS1-3 CC: MS-PS2-1 DCI: MS-ESS3-5 DCI: MS-LS1-5 DCI: MS-LS2-1 DCI: HS-ESS3-2 DCI: HS-LS2-1 DCI: HS-LS2-2 DCI: HS-LS3-2 DCI: HS-LS3-3 DCI: HS-LS4-2 SP: HS-ESS3-2	<b>feedback</b>	HS-ESS2-2 HS-ESS2-7 HS-LS1-3 CC: HS-ESS2-2 CC: HS-ESS2-7 CC: HS-ESS3-4 CC: HS-LS1-3 DCI: HS-ESS2-1 DCI: HS-ESS2-2 DCI: HS-LS1-3
	<b>feasible</b>		MS-ESS3-3 SP: 6 SP: 3-ESS2-1 SP: 3-LS3-1 SP: 3-LS4-1 SP: 4-ESS2-2 SP: 5-ESS1-2 SP: HS-LS3-3 SP: HS-LS4-3		<b>finding</b>

<b>firsthand</b>	SP: K-ESS2-1 SP: K-LS1-1 SP: K-PS3-1 SP: 1-ESS1-1 SP: 1-ESS1-2 SP: 1-LS3-1 SP: 1-PS4-2 SP: 2-LS4-1 SP: 2-PS1-3
<b>formula</b>	BBK

<b>function (noun)</b>	K-2-ETS1-2 2-LS2-2 MS-LS1-2 MS-LS1-3 MS-LS3-1 HS-ESS1-3 HS-LS1-1 HS-LS1-2 HS-PS2-1 SP: 6 CC: K-2-ETS1-2 CC: 1-LS1-1 CC: 2-LS2-2 CC: MS-LS1-2 CC: MS-LS3-1 CC: MS-PS1-3 CC: MS-PS4-2 CC: MS-PS4-3 CC: HS-ESS2-5 CC: HS-LS1-1 CC: HS-PS2-6 DCI: 3-LS2-1 DCI: 3-LS3-1 DCI: 4-LS1-1 DCI: MS-LS1-2 DCI: MS-LS1-3 DCI: MS-LS3-1 DCI: HS-LS1-1 DCI: HS-LS2-2 DCI: HS-LS2-4 DCI: HS-LS2-6 DCI: HS-LS2-7 DCI: HS-LS3-1 SP: HS-LS2-1 SP: HS-LS2-2 SP: HS-LS2-4 SP: HS-PS1-7
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<b>graph</b>	BBK MS-ESS3-5 HS-LS2-1 HS-LS4-2 HS-PS1-4 HS-PS2-1 SP: 8 CC: MS-ESS3-2 CC: MS-LS4-1 CC: MS-LS4-3 CC: MS-PS4-1
<b>histogram</b>	HS-LS2-1
<b>historical</b>	HS-LS2-1 DCI: HS-ESS2-3 SP: HS-ESS1-5 SP: HS-ESS2-7 SP: HS-ESS3-2 SP: HS-LS2-6 SP: HS-LS3-2 SP: HS-LS4-5 SP: HS-PS4-3
<b>hypothesis</b>	BBK SP: MS-PS2-3
<b>idea</b>	3-PS2-4 4-PS3-4 5-ESS3-1 5-LS1-1 5-LS2-1 MS-LS4-2 HS-ESS1-3 HS-PS1-4 HS-PS1-7 HS-PS2-3 HS-PS4-3 HS-PS4-4 SP: 8 CC: K-PS2-1 CC: K-PS2-2 CC: 1-PS4-2 CC: 2-PS1-2 CC: MS-LS1-3 DCI: K-2-ETS1-2 DCI: K-ESS3-3 DCI: 2-LS2-2 DCI: 3-5-ETS1-2

<b>idea (cont'd)</b>	SP: K-ESS2-2	<b>idea</b>	SP: HS-PS1-6	<b>information</b>	MS-ESS1-3
	SP: K-ESS3-3		SP: HS-PS2-3		MS-LS1-8
	SP: K-PS3-2	SP: HS-PS3-3	MS-LS3-2		
	SP: 1-LS1-1	SP: HS-PS4-5	MS-LS4-5		
	SP: 1-LS3-1	5-ESS3-1	MS-PS1-3		
	SP: 1-PS4-2	MS-LS2-1	MS-PS4-3		
	SP: 1-PS4-4	HS-LS2-8	HS-LS4-1		
	SP: 2-ESS1-1	CC: MS-ESS3-2	HS-PS2-6		
	SP: 2-ESS2-1	CC: MS-ESS3-3	HS-PS4-2		
	SP: 2-PS1-3	CC: MS-ETS1-1	HS-PS4-5		
	SP: 2-PS1-4	CC: MS-LS2-5	SP: 8		
	SP: 3-ESS2-2	CC: MS-PS1-3	CC: MS-ESS2-3		
	SP: 4-ESS3-1	CC: MS-PS2-1	CC: MS-ESS2-6		
	SP: 4-PS3-4	DCI: MS-LS1-7	CC: MS-PS3-1		
	SP: 5-ESS3-1	DCI: HS-LS1-4	CC: MS-PS3-4		
SP: MS-ESS1-4	3-LS4-2	CC: HS-ETS1-4			
SP: MS-ESS2-2	MS-LS4-4	CC: HS-LS1-2			
SP: MS-ESS3-1	HS-LS4-2	CC: HS-LS1-4			
SP: MS-ESS3-3	HS-LS4-5	CC: HS-LS2-5			
SP: MS-ETS1-4	DCI: 1-LS3-1	CC: HS-PS4-3			
SP: MS-LS1-8	DCI: 3-LS3-2	DCI: K-2-ETS1-1			
SP: MS-LS2-2	DCI: 3-LS4-2	DCI: K-ESS3-2			
SP: MS-LS4-2	DCI: MS-LS3-1	DCI: 1-LS1-1			
SP: MS-LS4-4	DCI: MS-LS3-2	DCI: 1-PS4-4			
SP: MS-LS4-5	DCI: HS-LS2-1	DCI: 3-LS3-1			
SP: MS-PS1-3	DCI: HS-LS2-2	DCI: 4-LS1-2			
SP: MS-PS2-1	DCI: HS-LS2-8	DCI: 4-PS4-3			
SP: MS-PS3-3	DCI: HS-LS4-2	DCI: MS-LS3-2			
SP: MS-PS4-3	DCI: HS-LS4-3	DCI: MS-PS1-6			
SP: HS-ESS1-2	DCI: HS-LS4-4	DCI: MS-PS2-2			
SP: HS-ESS1-3	<b>inference</b>	DCI: MS-PS4-3			
SP: HS-ESS1-6	MS-LS2-4	DCI: HS-ESS1-6			
SP: HS-ESS3-2	DCI: MS-LS4-2	DCI: HS-LS1-1			
SP: HS-ETS1-2	5-ESS2-1	DCI: HS-LS3-1			
SP: HS-ETS1-3	MS-LS4-5	DCI: HS-LS4-1			
SP: HS-LS1-1	HS-LS4-2	DCI: HS-LS4-2			
SP: HS-LS1-6	DCI: MS-ESS2-6	DCI: HS-LS4-3			
SP: HS-LS2-3	K-2-ETS1-1	DCI: HS-PS4-2			
SP: HS-LS2-6	K-ESS3-2	DCI: HS-PS4-5			
SP: HS-LS2-7	2-ESS1-1	SP: K-2-ETS1-1			
SP: HS-LS2--8	2-ESS2-3	SP: K-ESS3-2			
SP: HS-LS4-2	3-ESS2-2	SP: K-ESS3-3			
SP: HS-LS4-4	4-ESS3-1	SP: 1-LS1-2			
SP: HS-PS1-2	4-LS1-2	SP: 2-ESS2-3			
SP: HS-PS1-5	4-PS4-3	SP: 4-ESS3-1			
	5-ESS3-1				

<b>information (cont'd)</b>	SP: 5-ESS3-1 SP: MS-LS1-8 SP: MS-LS4-5 SP: MS-PS1-3 SP: MS-PS4-3 SP: HS-ESS1-1 SP: HS-LS4-1 SP: HS-PS2-6 SP: HS-PS4-4 SP: HS-PS4-5	<b>interaction</b>	CC: MS-PS2-4 CC: MS-PS3-2 CC: HS-ETS1-4 CC: HS-LS1-2 CC: HS-LS1-4 CC: HS-LS2-5 CC: HS-PS4-3 DCI: 3-LS3-2 DCI: MS-ESS2-2 DCI: MS-ESS2-6 DCI: MS-LS2-1 DCI: MS-LS2-2 DCI: MS-PS1-4 DCI: HS-ESS2-4 DCI: HS-LS2-2 DCI: HS-LS2-6 DCI: HS-LS4-2 DCI: HS-PS1-3 DCI: HS-PS1-6 DCI: HS-PS3-1 DCI: HS-PS3-2 DCI: HS-PS4-5 SP: 4-LS1-2 SP: HS-ETS1-4	<b>investigation</b>	CC: MS-PS4-3 CC: HS-ESS3-5 DCI: MS-ESS2-3 SP: K-PS2-1 SP: K-PS3-1 SP: 1-ESS1-2 SP: 1-PS4-1 SP: 1-PS4-3 SP: 2-LS2-1 SP: 2-LS4-1 SP: 2-PS1-1 SP: 3-5-ETS1-3 SP: 3-PS2-1 SP: 4-ESS2-1 SP: 4-PS3-2 SP: 5-PS1-3 SP: 5-PS1-4 SP: MS-ESS1-3 SP: MS-ESS2-3 SP: MS-ESS2-5 SP: MS-ESS3-2 SP: MS-ETS1-3 SP: MS-LS1-1 SP: MS-LS2-1 SP: MS-LS4-1 SP: MS-LS4-3 SP: MS-PS1-2 SP: MS-PS2-2 SP: MS-PS2-5 SP: MS-PS3-1 SP: MS-PS3-4 SP: HS-ESS1-2 SP: HS-ESS2-5 SP: HS-ESS3-1 SP: HS-ESS3-5 SP: HS-LS1-1 SP: HS-LS1-3 SP: HS-LS1-6 SP: HS-LS2-3 SP: HS-LS4-2 SP: HS-LS4-4 SP: HS-PS1-3 SP: HS-PS2-5 SP: HS-PS3-4
<b>input</b>	HS-LS1-5 HS-LS1-7 CC: MS-ESS2-6 CC: MS-PS2-1 CC: MS-PS2-4 CC: MS-PS3-2 CC: HS-ESS3-6 CC: HS-PS3-4 DCI: 1-LS1-1 DCI: MS-LS1-6 DCI: MS-LS1-8 SP: MS-ETS1-4	<b>interpretation</b>	BBK SP: 4 SP: HS-PS4-2		
<b>interaction</b>	3-PS2-3 MS-ESS2-5 MS-LS1-3 MS-LS2-2 MS-PS2-4 MS-PS2-5 HS-ESS1-5 HS-ESS2-2 HS-ESS2-5 HS-ETS1-4 HS-LS2-6 HS-PS2-2 HS-PS3-5 HS-PS4-5 CC: 3-LS4-4 CC: 4-LS1-1 CC: 4-LS1-2 CC: 5-ESS2-1 CC: 5-ESS3-1 CC: 5-LS2-1 CC: MS-ESS1-2 CC: MS-ESS2-6 CC: MS-PS2-1	<b>investigation</b>	K-PS2-1 1-PS4-1 1-PS4-3 2-LS2-1 2-PS1-1 3-PS2-1 5-PS1-4 MS-LS1-1 MS-PS2-2 MS-PS2-5 MS-PS3-4 HS-ESS2-5 HS-LS1-3 HS-PS1-3 HS-PS2-5 HS-PS3-4 SP: 3 SP: 4		



<b>knowledge</b>	HS-ESS3-2 HS-PS1-2 SP: 6 CC: 1-ESS1-1 CC: 1-LS1-1 CC: 2-PS1-2 CC: 3-LS4-3 CC: 4-ESS3-1 CC: 4-PS4-3 CC: MS-ESS3-4 CC: MS-LS2-5 CC: MS-LS4-5 CC: HS-ESS1-2 CC: HS-ESS3-2 CC: HS-ESS3-4 CC: HS-ESS3-2 CC: HS-LS4-1 CC: HS-LS4-4 CC: HS-PS3-3 CC: HS-PS4-2 DCI: MS-ESS3-5 DCI: MS-ETS1-1 DCI: MS-PS3-3 DCI: HS-PS1-2 DCI: HS-PS1-7 SP: MS-ETS1-1 SP: MS-LS1-5 SP: MS-LS1-6 SP: MS-LS4-1 SP: MS-PS1-2 SP: MS-PS1-6 SP: MS-PS2-2 SP: MS-PS2-4 SP: MS-PS3-4 SP: MS-PS3-5 SP: MS-PS4-1 SP: HS-ESS2-3 SP: HS-ESS3-1 SP: HS-ESS3-4 SP: HS-ESS3-5 SP: HS-ETS1-2 SP: HS-ETS1-3 SP: HS-LS2-2 SP: HS-LS2-3 SP: HS-LS2-7	<b>knowledge</b>	SP: HS-LS3-2 SP: HS-PS1-6 SP: HS-PS3-3	<b>logical</b>	BBK HS-LS2-8 SP: 6 CC: MS-PS1-2 CC: MS-PS2-2 CC: MS-PS2-4 CC: MS-PS3-4 CC: MS-PS3-5 CC: MS-PS4-1 CC: HS-LS1-3 CC: HS-LS2-6 SP: 3-LS3-1 SP: 3-LS4-1 SP: 4-ESS2-2 SP: MS-LS1-6 SP: MS-LS4-1 SP: HS-ESS3-2 SP: HS-LS2-8
	<b>linear</b>	CC: HS-ESS1-4 CC: HS-ESS3-5 CC: HS-LS3-3 SP: MS-LS4-3 SP: MS-PS3-1 SP: HS-ESS1-4 SP: HS-ESS3-3 SP: HS-ESS3-6 SP: HS-ETS1-4 SP: HS-LS2-1 SP: HS-LS2-2 SP: HS-LS2-4 SP: HS-LS3-3 SP: HS-LS4-3 SP: HS-LS4-6 SP: HS-PS1-7 SP: HS-PS2-2 SP: HS-PS2-4(a) SP: HS-PS2-4(b) SP: HS-PS3-1 SP: HS-PS4-1	<b>magnitude</b>		MS-ESS3-2 CC: MS-PS3-1 CC: MS-PS3-4 CC: HS-LS2-2 DCI: MS-PS2-3 DCI: HS-ESS3-5
	<b>logarithm</b>	SP: HS-ESS1-4 SP: HS-ESS3-3 SP: HS-ESS3-6 SP: HS-ETS1-4 SP: HS-LS2-1 SP: HS-LS2-2 SP: HS-LS2-4 SP: HS-LS4-6 SP: HS-PS1-7 SP: HS-PS2-2 SP: HS-PS2-4(a) SP: HS-PS2-4(b) SP: HS-PS3-1 SP: HS-PS4-1	<b>material</b>		K-PS3-2 1-LS1-1 1-PS4-1 1-PS4-3 1-PS4-4 2-PS1-1 2-PS1-2 2-PS1-4 3-5-ETS1-1 4-ESS3-1 4-PS3-4 5-LS1-1 5-LS2-1 5-PS1-3 MS-ESS2-1 MS-LS3-1 MS-PS1-3 MS-PS3-4 MS-PS4-2 HS-ESS1-6 HS-ESS2-5

<b>material (cont'd)</b>	HS-PS1-3	<b>mathematical</b>	HS-PS3-1	<b>matter</b>	5-PS1-2
	HS-PS2-6		HS-PS3-4		MS-LS1-6
	HS-PS4-4		HS-PS4-1		MS-LS1-7
	CC: 1-LS1-1		SP: 5		MS-LS2-3
	CC: 2-ESS2-1		CC: MS-PS1-5		MS-PS1-5
	CC: 2-PS1-2		CC: HS-ETS1-4		MS-PS3-4
	CC: MS-PS1-3		CC: HS-LS1-2		HS-ESS1-2
	CC: MS-PS4-2		CC: HS-LS1-4		HS-ESS2-3
	CC: HS-ESS2-5		CC: HS-LS2-5		HS-LS1-5
	CC: HS-LS1-1		CC: HS-PS4-3		HS-LS2-3
	CC: HS-PS2-6		DCI: HS-PS2-4(a)		HS-LS2-4
	DCI: 1-PS4-3		DCI: HS-PS2-4(b)		HS-PS4-4
	DCI: 3-5-ETS1-1		DCI: HS-PS3-1		HS-PS4-5
	DCI: 4-PS3-4		SP: 5-ESS2-2		CC: 5-LS1-1
	DCI: 5-ESS2-1		SP: 5-PS1-2		CC: MS-ESS2-4
	DCI: 5-LS1-1		SP: 5-PS1-5		CC: MS-ESS2-6
	DCI: 5-LS2-1		SP: MS-LS4-6		CC: MS-LS1-6
	DCI: 5-PS3-1		SP: MS-PS4-1		CC: MS-LS1-7
	DCI: MS-ESS2-1		SP: HS-ESS1-4		CC: MS-PS1-5
	DCI: MS-LS1-7		SP: HS-ESS2-2		CC: MS-PS2-1
	DCI: MS-PS1-4		SP: HS-ESS2-5		CC: MS-PS2-4
	DCI: MS-PS4-2		SP: HS-ESS3-3		CC: MS-PS3-2
	DCI: HS-ESS1-5		SP: HS-ESS3-6		CC: MS-PS3-5
	DCI: HS-ESS1-6		SP: HS-ETS1-4		CC: HS-ESS1-3
	DCI: HS-ESS2-3		SP: HS-LS1-3		CC: HS-ESS2-3
	DCI: HS-ESS2-5		SP: HS-LS2-1		CC: HS-ESS2-6
DCI: HS-LS1-4	SP: HS-LS2-2	CC: HS-ETS1-4			
DCI: HS-PS4-5	SP: HS-LS2-4	CC: HS-LS1-2			
SP: K-PS3-2	SP: HS-LS4-1	CC: HS-LS1-4			
SP: 1-LS1-1	SP: HS-LS4-6	CC: HS-LS1-5			
SP: 1-PS4-4	SP: HS-PS1-3	CC: HS-LS1-6			
SP: 3-5-ETS1-1	SP: HS-PS1-7	CC: HS-LS2-5			
<b>mathematical</b>	MS-ESS1-2	SP: HS-PS2-1	CC: HS-PS1-4		
	MS-LS4-6	SP: HS-PS2-2	CC: HS-PS1-7		
	MS-PS4-1	SP: HS-PS2-4	CC: HS-PS3-3		
	HS-ESS1-4	SP: HS-PS2-5	CC: HS-PS4-3		
	HS-LS2-1	SP: HS-PS2-6	DCI: 1-PS4-1		
	HS-LS2-2	SP: HS-PS3-1	DCI: 5-LS2-1		
	HS-LS2-4	SP: HS-PS3-4	DCI: 5-PS1-1		
	HS-LS2-5	SP: HS-PS4-1	DCI: 5-PS3-1		
	HS-LS4-2	SP: HS-PS4-5	DCI: MS-ESS2-1		
	HS-PS1-7	1-PS4-1	DCI: MS-LS2-3		
	HS-PS2-1	5-LS1-1	DCI: MS-PS1-1		
	HS-PS2-2	5-LS2-1	DCI: MS-PS1-2		
	HS-PS2-4	5-PS1-1	DCI: MS-PS1-4		

<p><b>matter (cont'd)</b></p>	<p>DCI: MS-PS3-3 DCI: MS-PS3-4 DCI: MS-PS4-2 DCI: HS-ESS2-3 DCI: HS-LS1-6 DCI: HS-LS1-7 DCI: HS-LS2-3 DCI: HS-LS2-4 DCI: HS-PS1-3 DCI: HS-PS2-6 DCI: HS-PS3-1 DCI: HS-PS3-2 DCI: HS-PS4-4 DCI: HS-PS4-5</p>	<p><b>mechanism</b></p>	<p>HS-ESS1-1 HS-ESS2-1 CC: HS-PS3-5 CC: HS-PS4-4 SP: 5-LS2-1 SP: MS-ESS2-4 SP: MS-LS1-7 SP: MS-PS1-5 SP: MS-PS3-2 SP: HS-ESS1-6</p>	<p><b>merit</b></p>	<p>3-ESS3-1 3-LS4-4 SP: 3-ESS2-2 SP: 3-ESS3-1 SP: 3-LS4-4 SP: 4-ESS3-1 SP: 5-ESS3-1 SP: MS-LS1-8 SP: MS-LS4-5 SP: MS-PS1-3 SP: MS-PS4-3 SP: HS-ESS1-5 SP: HS-LS2-6 SP: HS-LS2-8 SP: HS-LS4-5 SP: HS-PS4-3</p>
<p><b>measurement</b></p>	<p>3-PS2-2 4-ESS2-1 5-PS1-3 CC: MS-ESS1-1 CC: MS-ESS1-2 CC: MS-LS2-3 CC: MS-LS4-1 CC: MS-LS4-2 CC: MS-PS4-3 DCI: 5-PS1-3 SP: 3-PS2-2 SP: 4-ESS2-1 SP: 4-PS3-1 SP: 5-ESS2-2 SP: 5-PS1-2 SP: 5-PS1-3 SP: MS-PS2-2 SP: MS-PS3-4 SP: HS-ESS2-5 SP: HS-LS1-3 SP: HS-PS1-3 SP: HS-PS2-5 SP: HS-PS3-4</p>	<p><b>media</b></p>	<p>1-LS1-2 HS-PS4-1 DCI: MS-PS4-2 SP: K-ESS2-1 SP: K-ESS3-2 SP: K-LS1-1 SP: K-PS3-1 SP: 1-ESS1-1 SP: 1-ESS1-2 SP: 1-LS1-2 SP: 1-LS3-1 SP: 1-PS4-2 SP: 2-ESS2-3 SP: 2-LS4-1 SP: 2-PS1-3 SP: 3-ESS2-2 SP: 4-ESS3-1 SP: 5-ESS3-1 SP: MS-PS4-3 SP: HS-PS4-4</p>	<p><b>method</b></p>	<p>BBK MS-ESS3-3 SP: 7 SP: 3-ESS2-2 SP: 3-PS2-1 SP: 4-ESS3-1 SP: 5-ESS3-1 SP: MS-LS1-8 SP: MS-LS4-5 SP: MS-PS1-3 SP: MS-PS4-3 SP: HS-ESS1-3 SP: HS-ESS3-5 SP: HS-LS4-1 SP: HS-PS2-6 SP: HS-PS4-4 SP: HS-PS4-5</p>
				<p><b>model</b></p>	<p>K-2-ETS1-2 K-ESS3-1 2-ESS2-2 2-LS2-2 3-5-ETS1-3 3-LS1-1 4-LS1-2 4-PS4-1 4-PS4-2 5-ESS2-1 5-LS2-1 5-PS1-1</p>

<b>model (cont'd)</b>	5-PS3-1	<b>model</b>	CC: MS-ESS1-2	<b>model</b>	SP: 5-LS1-1
	MS-ESS1-1		CC: MS-ESS1-3		SP: 5-LS2-1
	MS-ESS1-2		CC: MS-ESS1-4		SP: 5-PS1-1
	MS-ESS1-3		CC: MS-ESS2-2		SP: 5-PS2-1
	MS-ESS2-1		CC: MS-ESS2-6		SP: 5-PS3-1
	MS-ESS2-4		CC: MS-ETS1-4		SP: MS-ESS1-1
	MS-ESS2-6		CC: MS-PS1-1		SP: MS-ESS1-2
	MS-ETS1-4		CC: MS-PS2-1		SP: MS-ESS2-1
	MS-LS1-2		CC: MS-PS2-4		SP: MS-ESS2-4
	MS-LS1-7		CC: MS-PS3-2		SP: MS-ESS2-6
	MS-LS2-3		CC: HS-ESS3-6		SP: MS-ESS3-4
	MS-LS3-1		CC: HS-ETS1-4		SP: MS-ESS3-5
	MS-LS3-2		CC: HS-LS1-2		SP: MS-ETS1-1
	MS-LS4-6		CC: HS-LS1-4		SP: MS-ETS1-4
	MS-PS1-1		CC: HS-LS2-2		SP: MS-LS1-2
	MS-PS1-4		CC: HS-LS2-5		SP: MS-LS1-7
	MS-PS1-5		CC: HS-PS3-1		SP: MS-LS2-3
	MS-PS3-2		CC: HS-PS3-4		SP: MS-LS3-1
	MS-PS4-1		CC: HS-PS4-3		SP: MS-LS3-2
	MS-PS4-2		DCI: K-2-ETS1-2		SP: MS-PS1-1
	HS-ETS1-4		DCI: K-ESS3-3		SP: MS-PS1-4
	HS-ESS1-1		DCI: 2-LS2-2		SP: MS-PS1-5
	HS-ESS2-1		DCI: 5-PS1-1		SP: MS-PS2-3
	HS-ESS2-3		DCI: MS-ESS1-1		SP: MS-PS2-4
	HS-ESS2-4		DCI: MS-LS2-3		SP: MS-PS3-1
	HS-ESS2-6		DCI: MS-PS1-4		SP: MS-PS3-2
	HS-ESS3-5		DCI: MS-PS4-2		SP: MS-PS3-4
	HS-LS1-2		DCI: HS-ESS2-3		SP: MS-PS3-5
	HS-LS1-4		DCI: HS-ESS3-5		SP: MS-PS4-2
	HS-LS1-5		DCI: HS-ETS1-4		SP: HS-ESS1-1
	HS-LS1-6		DCI: HS-LS4-6		SP: HS-ESS1-4
	HS-LS1-7		DCI: HS-PS2-4(a)		SP: HS-ESS1-6
	HS-LS2-4		DCI: HS-PS2-4(b)		SP: HS-ESS2-1
	HS-LS2-5		DCI: HS-PS4-3		SP: HS-ESS2-2
	HS-LS4-2		SP: K-2-ETS1-2		SP: HS-ESS2-3
	HS-PS1-1		SP: K-ESS3-1		SP: HS-ESS2-4
	HS-PS1-4		SP: K-ESS3-3		SP: HS-ESS2-5
	HS-PS1-8		SP: 2-ESS2-2		SP: HS-ESS2-6
	HS-PS3-1		SP: 2-LS2-2		SP: HS-ESS3-1
	HS-PS3-2		SP: 3-LS1-1		SP: HS-ESS3-3
HS-PS3-5	SP: 3-LS2-1	SP: HS-ESS3-5			
HS-PS4-3	SP: 4-LS1-2	SP: HS-ESS3-6			
SP: 2	SP: 4-PS4-1	SP: HS-ETS1-1			
SP: 6	SP: 5-ESS1-1	SP: HS-ETS1-4			
SP: 8	SP: 5-ESS2-1	SP: HS-LS1-1			

<b>model (cont'd)</b>	SP: HS-LS1-2	<b>motion</b>	BBK	<b>multiple</b>	2-ESS2-1
	SP: HS-LS1-3		K-PS2-1		3-5-ETS1-2
	SP: HS-LS1-4		3-PS2-1		4-ESS3-2
	SP: HS-LS1-5		3-PS2-2		4-PS4-3
	SP: HS-LS1-6		4-PS3-4		MS-ESS2-4
	SP: HS-LS1-7		5-ESS1-2		MS-LS2-2
	SP: HS-LS2-1		5-PS3-1		MS-LS4-3
	SP: HS-LS2-2		MS-ESS1-2		HS-LS2-2
	SP: HS-LS2-3		MS-ESS2-2		HS-LS4-1
	SP: HS-LS2-4		MS-ESS2-3		HS-LS4-6
	SP: HS-LS2-5		MS-ESS2-5		DCI: 3-PS2-1
	SP: HS-LS3-1		MS-PS1-4		DCI: 4-ESS3-1
	SP: HS-LS3-3		MS-PS2-1		DCI: 5-ESS2-1
	SP: HS-LS4-2		MS-PS2-2		DCI: 5-LS2-1
	SP: HS-LS4-3		MS-PS3-5		DCI: MS-LS1-3
	SP: HS-LS4-4		HS-ESS1-2		DCI: HS-LS4-1
	SP: HS-LS4-6		HS-ESS1-4		DCI: HS-PS3-2
	SP: HS-PS1-1		HS-PS2-1		DCI: HS-PS3-3
	SP: HS-PS1-2		HS-PS3-2		DCI: HS-PS4-5
	SP: HS-PS1-3		CC: MS-ESS2-4		SP: 3-5-ETS1-2
	SP: HS-PS1-4		CC: MS-LS1-6		SP: 2-ESS2-1
	SP: HS-PS1-8		CC: MS-PS3-5		SP: 3-ESS2-1
	SP: HS-PS1-7		DCI: K-PS2-1		SP: 3-LS3-1
	SP: HS-PS2-1		DCI: K-PS2-2		SP: 3-LS3-2
	SP: HS-PS2-2		DCI: 1-ESS1-1		SP: 3-LS4-1
	SP: HS-PS2-4		DCI: 3-PS2-1		SP: 3-LS4-2
	SP: HS-PS2-5		DCI: 3-PS2-2		SP: 4-ESS1-1
	SP: HS-PS3-4		DCI: 4-PS3-2		SP: 4-ESS2-2
	SP: HS-PS4-1		DCI: 4-PS3-3		SP: 4-ESS3-2
	SP: HS-PS4-2		DCI: 4-PS3-4		SP: 4-PS3-1
			DCI: 4-PS4-1		SP: 4-PS3-4
			DCI: 5-PS3-1		SP: 4-PS4-3
	DCI: MS-ESS1-1	SP: 5-ESS1-2			
	DCI: MS-PS1-4	SP: MS-ESS1-4			
	DCI: MS-PS2-2	SP: MS-ESS2-2			
	DCI: MS-PS3-1	SP: MS-ESS2-5			
	DCI: MS-PS3-5	SP: MS-ESS3-1			
	DCI: HS-ESS1-4	SP: MS-ESS3-3			
	DCI: HS-ESS2-3	SP: MS-LS1-1			
	DCI: HS-PS2-1	SP: MS-LS1-5			
	DCI: HS-PS3-1	SP: MS-LS1-6			
	DCI: HS-PS3-2	SP: MS-LS1-8			
	DCI: HS-PS3-3	SP: MS-LS2-2			
		SP: MS-LS4-2			
		SP: MS-LS4-4			

<b>multiple (cont'd)</b>	SP: MS-LS4-5	<b>natural</b>	CC: MS-ESS1-2	<b>natural world</b>	CC: 1-LS3-1
	SP: MS-PS1-3		CC: MS-ESS2-1		CC: 2-ESS2-2
	SP: MS-PS1-6		CC: MS-ESS2-3		CC: 2-ESS2-3
	SP: MS-PS2-1		CC: MS-ESS2-4		CC: 2-PS1-1
	SP: MS-PS2-2		CC: MS-ESS2-5		CC: 2-PS1-2
	SP: MS-PS2-5		CC: MS-ESS3-1		CC: 3-PS2-4
	SP: MS-PS3-3		CC: MS-ESS3-4		SP: K-2-ETS1-1
	SP: MS-PS3-4		CC: MS-LS1-2		SP: K-ESS2-1
	SP: MS-ETS1-1		CC: MS-LS1-6		SP: K-ESS2-2
	SP: HS-ESS1-2		CC: MS-LS1-8		SP: K-ESS3-1
	SP: HS-ESS1-3		CC: MS-LS2-1		SP: K-ESS3-2
	SP: HS-ESS1-6		CC: MS-LS2-3		SP: K-LS1-1
	SP: HS-ESS2-4		CC: MS-LS3-1		SP: 1-ESS1-1
	SP: HS-ESS3-1		CC: MS-LS3-2		SP: 2-PS1-4
	SP: HS-ESS3-4		CC: MS-LS4-1		SP: 3-ESS3-1
	SP: HS-ESS3-5		CC: MS-LS4-2		SP: 3-LS2-1
	SP: HS-ETS1-2		CC: MS-LS4-5		SP: 3-LS4-3
	SP: HS-ETS1-3		CC: MS-PS1-4		SP: 4-LS1-1
	SP: HS-LS1-1		CC: MS-PS1-6		SP: 5-ESS1-1
	SP: HS-LS1-6		CC: MS-PS2-2		SP: 5-LS1-1
	SP: HS-LS2-3		CC: MS-PS2-3		SP: 5-PS2-1
	SP: HS-LS4-1		CC: MS-PS2-5		SP: MS-ESS1-4
	SP: HS-LS4-2		CC: MS-PS3-3		SP: MS-ESS3-1
	SP: HS-LS4-4		CC: HS-ESS3-2		SP: MS-ESS3-4
	SP: HS-PS1-2		CC: HS-PS3-5		SP: MS-ETS1-2
	SP: HS-PS1-5		CC: HS-PS4-4		SP: MS-LS1-3
	SP: HS-PS1-6		DCI: 4-ESS3-1		SP: MS-LS1-4
	SP: HS-PS2-3		DCI: MS-ESS3-3		SP: MS-LS1-5
	SP: HS-PS2-6		DCI: MS-ESS3-4		SP: MS-LS1-6
	SP: HS-PS3-3		SP: 2-PS1-4		SP: MS-LS2-4
	SP: HS-PS4-4		SP: 4-LS1-2		SP: MS-LS2-5
	SP: HS-PS4-5		SP: HS-ESS2-3		SP: MS-PS2-4
			SP: HS-ESS2-5		SP: PS3-5
	SP: HS-ESS2-7	SP: HS-ESS1-1			
	SP: HS-PS1-1	SP: HS-ESS1-2			
	SP: HS-PS3-5	SP: HS-ESS1-5			
	SP: HS-PS4-3	SP: HS-ESS1-6			
<b>natural</b>	MS-ETS1-1	<b>natural world</b>	CC: K-ESS2-1	SP: HS-ESS2-1	
	HS-ESS3-2		CC: K-ESS2-2	SP: HS-ESS2-2	
	HS-ESS3-4		CC: K-ESS3-1	SP: HS-ESS2-4	
	CC: K-2-ETS1-2		CC: K-ESS3-2	SP: HS-ESS2-6	
	CC: 1-LS1-1		CC: K-LS1-1	SP: HS-ESS3-1	
	CC: 2-LS2-2		CC: 1-ESS1-1	SP: HS-ESS3-2	
	CC: 3-LS4-1		CC: 1-ESS1-2	SP: HS-LS1-1	
	CC: 4-ESS1-1		CC: 1-LS1-2	SP: HS-LS1-2	
	CC: 5-ESS1-1				
	CC: 5-LS2-1				
CC: 5-PS1-1					
CC: 5-PS1-2					
CC: MS-ESS1-1					

<p><b>natural world (cont'd)</b></p>	<p>SP: HS-LS1-6                  SP: HS-LS2-3                  SP: HS-LS2-5                  SP: HS-LS2-6                  SP: HS-LS2-8                  SP: HS-LS3-2                  SP: HS-LS4-1                  SP: HS-LS4-2                  SP: HS-LS4-4                  SP: HS-LS4-5                  SP: HS-PS1-1                  SP: HS-PS1-4                  SP: HS-PS1-8                  SP: HS-PS3-2                  SP: HS-PS3-5                  SP: HS-PS4-3</p>	<p><b>nonlinear</b></p>	<p>SP: MS-LS4-3                  SP: MS-PS3-1                  SP: HS-ESS1-4                  SP: HS-ESS3-3                  SP: HS-ESS3-6                  SP: HS-ETS1-4                  SP: HS-LS2-1                  SP: HS-LS2-2                  SP: HS-LS2-4                  SP: HS-LS4-6                  SP: HS-PS1-7                  SP: HS-PS2-2                  SP: HS-PS2-4(a)                  SP: HS-PS2-4(b)                  SP: HS-PS3-1                  SP: HS-PS4-1</p>	<p><b>object</b></p>	<p>HS-ESS1-6                  HS-PS2-1                  HS-PS2-2                  HS-PS2-3                  HS-PS2-4                  HS-PS3-2                  HS-PS3-4                  HS-PS3-5                  CC: K-2-ETS1-2                  CC: 1-LS1-1                  CC: 2-LS2-2                  CC: 2-PS1-3                  CC: 4-PS3-1                  CC: 4-PS3-2                  CC: 4-PS3-3                  CC: 4-PS3-4                  CC: 5-ESS1-1                  CC: 5-PS1-1                  CC: 5-PS3-1                  CC: MS-ESS1-1                  CC: MS-ESS1-2                  CC: MS-LS2-3                  CC: MS-LS4-1                  CC: MS-LS4-2                  CC: HS-ESS1-2                  CC: HS-ESS2-5                  CC: HS-LS1-7                  CC: HS-LS2-4                  CC: HS-PS3-2                  DCI: K-PS2-1                  DCI: K-PS2-2                  DCI: 1-LS1-1                  DCI: 1-PS4-2                  DCI: 2-PS1-3                  DCI: 3-PS2-1                  DCI: 3-PS2-2                  DCI: 3-PS2-3                  DCI: 3-PS2-4                  DCI: 4-PS3-1                  DCI: 4-PS3-2                  DCI: 4-PS3-3                  DCI: 4-PS4-2                  DCI: 5-PS1-3                  DCI: 5-PS2-1                  DCI: MS-ESS1-2</p>
<p><b>need</b></p>	<p>K-ESS2-2                  K-ESS3-1                  1-LS1-1                  3-5-ETS1-1                  3-LS4-3                  HS-ETS1-1                  SP: 1                  CC: 3-5-ETS1-1                  CC: MS-ESS3-2                  CC: MS-ESS3-3                  CC: MS-ETS1-1                  CC: MS-LS2-5                  CC: MS-PS1-3                  CC: MS-PS2-1                  DCI: 5-LS2-1                  DCI: HS-ETS1-1                  DCI: HS-ETS1-4                  DCI: HS-LS4-6</p>	<p><b>object</b></p>	<p>K-2-ETS1-1                  K-2-ETS1-2                  K-2-ETS1-3                  K-PS2-1                  K-PS2-2                  1-PS4-1                  1-PS4-2                  1-PS4-3                  2-PS1-3                  3-PS2-1                  3-PS2-2                  3-PS2-3                  3-PS2-4                  4-PS3-1                  4-PS3-3                  4-PS4-1                  4-PS4-2                  5-PS2-1                  MS-ESS1-2                  MS-ESS1-3                  MS-ETS1-4                  MS-PS2-1                  MS-PS2-2                  MS-PS2-4                  MS-PS2-5                  MS-PS3-1                  MS-PS3-2                  MS-PS3-5                  HS-ESS1-4</p>		

<b>object (cont'd)</b>	DCI: MS-ESS1-3	<b>observable</b>	2-PS1-1	<b>observation</b>	CC: MS-LS4-1
	DCI: MS-PS1-4		SP: 2		CC: MS-LS4-2
	DCI: MS-PS2-1		CC: K-ESS3-2		DCI: K-2-ETS1-1
	DCI: MS-PS2-2		CC: K-ESS3-3		DCI: K-ESS3-2
	DCI: MS-PS2-3		CC: K-PS3-1		DCI: 5-PS1-1
	DCI: MS-PS2-4		CC: K-PS3-2		DCI: HS-ESS1-2
	DCI: MS-PS2-5		CC: 2-LS2-1		SP: K-2-ETS1-1
	DCI: MS-PS3-1		CC: 2-PS1-4		SP: K-ESS2-1
	DCI: MS-PS3-2		CC: 3-LS4-1		SP: K-ESS3-2
	DCI: MS-PS3-3		CC: MS-LS1-1		SP: K-LS1-1
	DCI: MS-PS3-5		CC: HS-PS2-1		SP: K-PS2-2
	DCI: MS-PS4-2		CC: HS-PS2-4(a)		SP: K-PS3-1
	DCI: HS-ESS1-4		CC: HS-PS2-4(b)		SP: 1-ESS1-1
	DCI: HS-ESS1-6		DCI: 2-PS1-1		SP: 1-ESS1-2
	DCI: HS-PS1-1		DCI: 5-ESS1-2		SP: 1-LS1-2
	DCI: HS-PS1-3	BBK	SP: 1-LS3-1		
	DCI: HS-PS2-1	K-2-ETS1-1	SP: 1-PS4-2		
	DCI: HS-PS2-2	K-ESS2-1	SP: 2-ESS1-1		
	DCI: HS-PS2-3	K-LS1-1	SP: 2-ESS2-3		
	DCI: HS-PS2-4	K-PS3-1	SP: 2-LS4-1		
	DCI: HS-PS2-6	1-ESS1-1	SP: 2-PS1-2		
	DCI: HS-PS3-1	1-ESS1-2	SP: 2-PS1-3		
	DCI: HS-PS3-2	1-LS3-1	SP: 3-ESS2-1		
	DCI: HS-PS3-4	1-PS4-2	SP: 3-LS3-1		
	DCI: HS-PS3-5	2-LS4-1	SP: 3-LS3-2		
	SP: K-2-ETS1-1	2-PS1-1	SP: 3-LS4-1		
	SP: K-2-ETS1-2	2-PS1-3	SP: 3-LS4-2		
	SP: K-2-ETS1-3	3-PS2-2	SP: 3-PS2-2		
	SP: K-PS2-2	4-ESS2-1	SP: 4-ESS2-1		
	SP: 2-LS2-2	4-PS3-2	SP: 4-ESS2-2		
	SP: 2-PS1-2	5-PS1-3	SP: 4-PS3-1		
	SP: 3-5-ETS1-1	HS-ESS1-1	SP: 4-PS3-2		
	SP: 3-PS2-4	SP: 3	SP: 5-ESS1-2		
SP: MS-ESS3-3	CC: MS-ESS1-1	SP: 5-PS1-3			
SP: MS-ETS1-1	CC: MS-ESS1-2	SP: MS-PS2-3			
SP: MS-PS2-1	CC: MS-LS2-3	SP: HS-ESS1-2			
SP: MS-PS3-3		SP: HS-ESS1-6			
SP: HS-LS1-3		SP: HS-LS4-1			
<b>objectivity</b>	SP: HS-LS1-3		SP: HS-PS4-3		



<b>oral</b>	SP: 8 SP: K-ESS3-3 SP: MS-ESS3-4 SP: MS-LS1-3 SP: MS-LS1-4 SP: MS-LS2-4 SP: MS-PS2-4 SP: MS-PS3-5 SP: HS-ESS2-7	<b>pattern</b>	HS-PS1-1 HS-PS1-2 SP: 4 SP: 5 CC: K-ESS2-1 CC: K-ESS3-2 CC: K-ESS3-3 CC: K-LS1-1 CC: K-PS3-1 CC: K-PS3-2 CC: 1-ESS1-1 CC: 1-ESS1-2 CC: 1-LS1-2 CC: 1-LS3-1 CC: 2-ESS2-2 CC: 2-ESS2-3 CC: 2-LS2-1 CC: 2-PS1-1 CC: 2-PS1-4 CC: 3-ESS2-1 CC: 3-ESS2-2 CC: 3-LS1-1 CC: 3-LS3-1 CC: 3-LS4-1 CC: 3-PS2-2 CC: 4-PS4-1 CC: 4-PS4-3 CC: 4-ESS1-1 CC: 4-ESS2-2 CC: 5-ESS1-2 CC: 5-PS1-2 CC: MS-ESS1-1 CC: MS-ESS1-2 CC: MS-ESS2-3 CC: MS-ESS3-2 CC: MS-LS2-2 CC: MS-LS2-3 CC: MS-LS4-1 CC: MS-LS4-2 CC: MS-LS4-3 CC: MS-PS1-2 CC: MS-PS4-1 CC: HS-ESS1-5 CC: HS-LS4-1 CC: HS-LS4-3	<b>pattern</b>	CC: HS-PS1-1 CC: HS-PS1-2 CC: HS-PS1-3 CC: HS-PS1-5 CC: HS-PS2-4(a) CC: HS-PS2-4(b) DCI: K-ESS2-1 DCI: 1-ESS1-1 DCI: 1-ESS1-2 DCI: 3-ESS2-1 DCI: 3-PS2-2 DCI: 4-ESS1-1 DCI: 4-ESS2-2 DCI: 4-PS4-1 DCI: 5-ESS1-2 DCI: 5-ESS2-1 DCI: MS-ESS1-1 DCI: MS-ESS2-3 DCI: MS-ESS2-5 DCI: MS-ESS2-6 DCI: MS-LS2-2 DCI: MS-PS4-1 DCI: HS-PS1-1 DCI: HS-PS1-2 SP: K-ESS2-1 SP: K-ESS3-2 SP: K-LS1-1 SP: 1-ESS1-1 SP: 1-LS1-2 SP: 2-ESS2-2 SP: 2-LS4-1 SP: 3-ESS2-1 SP: 3-LS1-1 SP: 3-LS3-2 SP: 3-LS4-2 SP: 3-PS2-2 SP: 3-PS2-3 SP: 4-PS3-1 SP: 4-PS3-3 SP: 4-PS4-1 SP: 5-ESS1-2 SP: MS-LS4-6 SP: MS-PS4-1 SP: HS-ESS2-3	
<b>output</b>	HS-ESS2-4 HS-ESS3-5 HS-LS1-5 HS-LS1-7 CC: MS-ESS2-6 CC: MS-PS2-1 CC: MS-PS2-4 CC: MS-PS3-2 CC: HS-ESS3-6 CC: HS-PS3-4 DCI: HS-ESS2-4 SP: MS-ETS1-4					
<b>pattern</b>	K-ESS2-1 K-LS1-1 1-ESS1-1 1-LS1-2 1-LS3-1 1-PS4-4 2-PS1-1 3-LS1-1 3-LS3-1 3-PS2-2 4-ESS2-2 4-PS4-1 4-PS4-3 5-ESS1-2 MS-ESS1-1 MS-ESS2-6 MS-LS2-2 MS-LS2-4 MS-LS4-1 MS-LS4-3 MS-PS4-3 HS-ESS2-4 HS-ESS2-7 HS-ESS3-1					

<b>peer review</b>	BBK SP: HS-ESS1-2 SP: HS-ESS3-1 SP: HS-LS1-1 SP: HS-LS1-6 SP: HS-LS2-3 SP: HS-LS4-2 SP: HS-LS4-4 SP: HS-PS1-2		CC: HS-ESS1-6 CC: HS-LS2-1 CC: HS-LS4-1 CC: HS-LS4-3 CC: HS-PS1-1 CC: HS-PS1-2 CC: HS-PS1-3 CC: HS-PS1-5 CC: HS-PS2-1		SP: MS-ESS1-1 SP: MS-ESS1-2 SP: MS-ESS2-1 SP: MS-ESS2-3 SP: MS-ESS2-4 SP: MS-ESS2-6 SP: MS-ESS3-4 SP: MS-ETS1-4 SP: MS-LS1-2
<b>phenomenon</b>	MS-ESS3-2 MS-PS2-5 HS-PS3-2 HS-PS4-3 SP: 1 SP: 6 CC: K-ESS2-1 CC: 1-ESS1-1 CC: 1-ESS1-2 CC: 1-LS1-2 CC: 1-LS3-1 CC: 3-LS3-1 CC: 3-LS4-1 CC: 4-PS4-1 CC: 5-ESS1-2 CC: MS-ESS1-3 CC: MS-ESS1-4 CC: MS-ESS2-2 CC: MS-ESS2-5 CC: MS-ESS3-1 CC: MS-ESS3-4 CC: MS-LS1-1 CC: MS-LS1-4 CC: MS-LS1-5 CC: MS-LS1-8 CC: MS-LS2-1 CC: MS-LS3-2 CC: MS-LS4-4 CC: MS-LS4-5 CC: MS-LS4-6 CC: MS-PS1-1 CC: MS-PS1-4 CC: MS-PS2-3 CC: MS-PS2-5 CC: HS-ESS1-1 CC: HS-ESS1-2	<b>phenomenon</b>	CC: HS-PS2-4(a) CC: HS-PS2-4(b) CC: HS-PS4-3 DCI: HS-ESS2-4 DCI: HS-PS3-2 SP: K-PS3-2 SP: 1-LS1-1 SP: 1-LS3-1 SP: 1-PS4-2 SP: 1-PS4-4 SP: 2-ESS1-1 SP: 2-ESS2-1 SP: 2-PS1-3 SP: 3-5-ETS1-2 SP: 3-ESS2-2 SP: 3-LS1-1 SP: 3-LS3-1 SP: 3-LS3-2 SP: 3-LS4-1 SP: 3-LS4-2 SP: 3-PS2-2 SP: 4-ESS1-1 SP: 4-ESS2-1 SP: 4-ESS2-2 SP: 4-ESS3-1 SP: 4-ESS3-2 SP: 4-PS3-1 SP: 4-PS3-2 SP: 4-PS3-4 SP: 4-PS4-2 SP: 4-PS4-3 SP: 5-ESS3-1 SP: 5-LS2-1 SP: 5-PS1-1 SP: 5-PS1-3 SP: 5-PS3-1	<b>phenomenon</b>	SP: MS-LS1-3 SP: MS-LS1-4 SP: MS-LS1-7 SP: MS-LS2-1 SP: MS-LS2-2 SP: MS-LS2-3 SP: MS-LS2-4 SP: MS-LS3-1 SP: MS-LS3-2 SP: MS-LS4-2 SP: MS-LS4-4 SP: MS-PS1-1 SP: MS-PS1-4 SP: MS-PS1-5 SP: MS-PS2-4 SP: MS-PS3-2 SP: MS-PS3-5 SP: MS-PS4-2 SP: HS-ESS1-3 SP: HS-ESS1-4 SP: HS-ESS2-4 SP: HS-ESS3-3 SP: HS-ESS3-6 SP: HS-LS2-1 SP: HS-LS2-2 SP: HS-LS2-4 SP: HS-LS4-1 SP: HS-LS4-6 SP: HS-PS1-5 SP: HS-PS1-7 SP: HS-PS2-1 SP: HS-PS2-2 SP: HS-PS2-4(a) SP: HS-PS2-4(b) SP: HS-PS3-1 SP: HS-PS4-1

<b>phenomenon (cont'd)</b>	SP: HS-PS4-5
<b>physical</b>	K-2-ETS1-2
	4-PS4-1
	MS-ESS1-1
	MS-ESS1-2
	MS-ESS1-4
	MS-LS2-4
	MS-PS1-5
	HS-LS2-6
	SP: 5
	CC: 5-ESS2-2
	CC: 5-PS1-2
	CC: 5-PS1-3
	CC: MS-LS1-7
	CC: MS-PS1-5
	CC: HS-ETS1-4
	CC: HS-LS1-2
	CC: HS-LS1-4
	CC: HS-LS2-5
	CC: HS-PS4-3
	DCI: K-2-ETS1-2
	DCI: K-ESS3-3
	DCI: 2-LS2-2
	DCI: 3-LS4-4
	DCI: 4-ESS2-1
	DCI: MS-ESS2-1
	DCI: MS-LS2-3
	DCI: MS-LS2-4
	DCI: MS-PS1-2
	DCI: MS-PS1-3
	DCI: HS-ESS2-3
	DCI: HS-ESS2-5
	DCI: HS-ETS1-4
	DCI: HS-LS2-2
	DCI: HS-LS2-5
	DCI: HS-LS4-5
	DCI: HS-LS4-6
	SP: K-2-ETS1-2
	SP: K-ESS3-1
	SP: 2-ESS2-2
	SP: 2-LS2-2
	SP: 5-ESS2-2
	SP: 5-PS1-2
	SP: HS-ESS2-5

<b>physical</b>	SP: HS-LS1-3
	SP: HS-PS1-3
	SP: HS-PS2-5
<b>pictograph</b>	SP: HS-PS3-4
	SP: 3-ESS2-1
<b>pie chart</b>	SP: 5-ESS1-2
	BBK
<b>prediction</b>	MS-ESS3-2
	SP: 5
	CC: 3-ESS2-1
	CC: 3-ESS2-2
	CC: 3-LS1-1
	CC: 3-PS2-2
	CC: HS-PS3-1
	DCI: 3-ESS2-1

<b>principle</b>	MS-ESS3-3
	MS-ETS1-1
	MS-PS3-3
	HS-PS1-5
	HS-PS1-6
	HS-PS2-2
	HS-PS4-5
	SP: 5
	DCI: MS-ETS1-1
	DCI: MS-PS3-3
	SP: 4-PS4-1
	SP: 5-ESS2-1
	SP: MS-ESS1-4
	SP: MS-ESS2-2
	SP: MS-ESS3-1
	SP: MS-ESS3-3
	SP: MS-LS1-5
	SP: MS-LS1-6
	SP: MS-LS2-2
	SP: MS-LS4-2
	SP: MS-LS4-4
	SP: MS-PS1-6
	SP: MS-PS2-1
	SP: MS-PS2-3
	SP: MS-PS3-3
	SP: HS-ESS1-2
	SP: HS-ESS1-6
	SP: HS-ESS3-1
	SP: HS-ESS3-2
	SP: HS-ESS3-4
	SP: HS-ETS1-2
	SP: HS-ETS1-3
	SP: HS-LS1-1
	SP: HS-LS1-6
	SP: HS-LS2-3
	SP: HS-LS2-7
	SP: HS-LS4-2
	SP: HS-LS4-4
	SP: HS-PS1-2
	SP: HS-PS1-5
	SP: HS-PS1-6
	SP: HS-PS2-3
	SP: HS-PS3-3

<b>problem</b>	K-2-ETS1-1	<b>problem</b>	SP: K-ESS3-2	<b>problem</b>	SP: MS-PS3-4
	K-2-ETS1-2		SP: K-PS2-1		SP: HS-ESS3-2
	K-2-ETS1-3		SP: K-PS3-1		SP: HS-ESS3-4
	K-PS2-2		SP: K-PS3-2		SP: HS-ETS1-1
	1-LS1-1		SP: 1-ESS1-2		SP: HS-ETS1-2
	1-PS4-4		SP: 1-LS1-1		SP: HS-ETS1-3
	3-5-ETS1-1		SP: 1-PS4-1		SP: HS-LS2-7
	3-5-ETS1-2		SP: 1-PS4-3		SP: HS-LS3-1
	3-LS4-4		SP: 1-PS4-4		SP: HS-LS3-3
	3-PS2-4		SP: 2-ESS2-1		SP: HS-LS4-3
	MS-ETS1-1		SP: 2-LS2-1		SP: HS-PS1-5
	MS-ETS1-2		SP: 2-LS4-1		SP: HS-PS1-6
	MS-PS2-1		SP: 2-PS1-1		SP: HS-PS2-3
	HS-ETS1-2		SP: 3-5-ETS1-1		SP: HS-PS2-5
	HS-ETS1-3		SP: 3-5-ETS1-2		SP: HS-PS3-3
	HS-ETS1-4		SP: 3-5-ETS1-3		SP: HS-PS3-4
	HS-LS4-6		SP: 3-ESS3-1		SP: HS-PS4-2
	HS-PS1-7		SP: 3-LS3-2		4-ESS3-2
	SP: 1		SP: 3-LS4-2		4-LS1-2
	SP: 2		SP: 3-LS4-4		MS-ESS2-1
	SP: 4		SP: 3-PS2-1		MS-ESS2-2
	SP: 6		SP: 3-PS2-2		MS-ESS3-1
	SP: 7		SP: 3-PS2-3		MS-ESS3-2
	CC: HS-LS1-1		SP: 3-PS2-4		MS-ESS3-3
	CC: HS-PS2-6		SP: 4-ESS1-1		MS-ESS3-5
	DCI: K-2-ETS1-1		SP: 4-ESS2-1		MS-ETS1-2
	DCI: K-2-ETS1-2		SP: 4-ESS3-2		MS-ETS1-4
	DCI: K-2-ETS1-3		SP: 4-PS3-1		MS-LS1-7
	DCI: K-ESS3-2		SP: 4-PS3-2		MS-PS1-3
	DCI: K-ESS3-3		SP: 4-PS3-3		MS-PS1-6
	DCI: K-PS2-2		SP: 4-PS3-4		HS-ESS2-1
	DCI: 2-ESS2-1		SP: 4-PS4-3		HS-ESS2-5
	DCI: 2-LS2-2		SP: 5-ESS3-1		HS-ESS3-1
	DCI: 3-5-ETS1-1		SP: 5-PS1-2		HS-LS1-7
	DCI: 3-5-ETS1-2		SP: 5-PS1-3		HS-LS4-2
	DCI: 3-5-ETS1-3		SP: 5-PS1-4		HS-PS1-8
	DCI: 4-PS3-4		SP: MS-ESS3-4		SP: 6
	DCI: 4-PS4-3		SP: MS-ESS3-5		CC: 3-PS2-4
	DCI: MS-ETS1-2		SP: MS-ETS1-1		CC: MS-ESS2-1
	DCI: MS-ETS1-3		SP: MS-LS1-1		CC: MS-ESS2-6
	DCI: MS-LS2-5		SP: MS-LS1-4		CC: MS-LS1-7
	DCI: MS-PS3-3		SP: MS-LS2-4		CC: MS-PS1-5
	DCI: HS-ETS1-4		SP: MS-PS2-2		CC: MS-PS2-1
	DCI: HS-LS4-6		SP: MS-PS2-3		CC: MS-PS2-4
	SP: K-2-ETS1-1		SP: MS-PS2-4		CC: MS-PS3-1
					<b>process</b>

<b>process (cont'd)</b>	CC: MS-PS3-2 CC: MS-PS3-4 CC: HS-ESS1-3 CC: HS-ESS2-3 CC: HS-PS1-8 DCI: 3-5-ETS1-2 DCI: 3-ESS3-1 DCI: 4-ESS3-2 DCI: 5-ESS2-1 DCI: 5-PS3-1 DCI: MS-ESS2-1 DCI: MS-ESS2-3 DCI: MS-ETS1-2 DCI: MS-ETS1-3 DCI: MS-ETS1-4 DCI: MS-LS1-6 DCI: MS-LS1-7 DCI: MS-LS2-5 DCI: MS-LS4-6 DCI: MS-PS1-2 DCI: MS-PS1-3 DCI: MS-PS1-5 DCI: MS-PS1-6 DCI: MS-PS3-3 DCI: HS-ESS1-1 DCI: HS-ESS1-2 DCI: HS-ESS1-3 DCI: HS-ESS1-6 DCI: HS-ESS2-3 DCI: HS-ETS1-4 DCI: HS-LS1-4 DCI: HS-LS1-5 DCI: HS-LS1-7 DCI: HS-LS2-3 DCI: HS-LS2-5 DCI: HS-LS3-2 DCI: HS-LS4-6 DCI: HS-PS1-4 DCI: HS-PS1-5 DCI: HS-PS1-8 SP: 3-5-ETS1-1 SP: MS-ESS3-1 SP: MS-ESS3-3 SP: MS-ETS1-1 SP: MS-PS2-1	<b>process</b>	SP: MS-PS3-5 SP: HS-ESS1-3 SP: HS-ESS2-3 SP: HS-ESS3-3 SP: HS-LS4-1 SP: HS-LS4-6 SP: HS-PS2-6 SP: HS-PS3-1 SP: HS-PS4-5	<b>quantitative</b>	K-ESS2-1 MS-PS4-1 HS-ESS2-6 HS-ETS1-1 HS-LS2-1 HS-PS2-2 HS-PS2-4 HS-PS3-3 HS-PS3-4 SP: 5 DCI: HS-PS3-1 DCI: HS-PS3-2 SP: 3-ESS2-1 SP: 3-LS3-1 SP: 3-LS4-1 SP: 4-ESS2-2 SP: 5-ESS1-2 SP: 5-ESS2-2 SP: 5-PS1-2 SP: MS-ESS1-3 SP: MS-ESS2-3 SP: MS-ESS3-2 SP: MS-ETS1-3 SP: MS-LS2-1 SP: MS-LS2-2 SP: MS-LS4-1 SP: MS-LS4-3 SP: MS-LS4-4 SP: MS-PS1-2 SP: MS-PS3-1
	<b>proportion</b>	HS-LS4-3 CC: HS-ESS1-1 CC: HS-LS2-1 DCI: HS-LS4-3 DCI: HS-LS4-4	<b>quantity</b>		CC: MS-PS1-2 CC: MS-PS1-3 CC: HS-ESS1-1 CC: HS-LS2-1 DCI: HS-PS3-1 DCI: HS-PS3-2
	<b>qualitative</b>	K-ESS2-1 MS-PS1-4 MS-PS2-2 MS-PS4-1 MS-PS4-3 HS-ETS1-1 HS-PS1-8 HS-PS2-2 HS-PS3-3 SP: 3-5-ETS1-1 SP: 3-ESS2-1 SP: 3-LS3-1 SP: 3-LS4-1 SP: 3-PS2-3 SP: 3-PS2-4 SP: 4-ESS2-2 SP: 4-PS3-3 SP: 5-ESS1-2 SP: MS-LS2-2 SP: MS-LS4-4 SP: MS-PS4-3			

<b>range</b>	5-ESS2-1 MS-ESS2-2 HS-ESS3-4 HS-ETS1-3 HS-LS4-4 SP: 3 SP: 4 SP: 5 SP: 6 CC: HS-ESS1-2 CC: HS-ESS1-4 CC: HS-ESS2-3 DCI: 3-5-ETS1-2 DCI: 3-ESS2-2 DCI: 4-ESS2-2 DCI: 4-ESS3-2 DCI: HS-ESS3-2 DCI: HS-ESS3-4 DCI: HS-ETS1-3 DCI: HS-LS1-3 DCI: HS-LS2-7 DCI: HS-LS4-6 SP: MS-ESS2-5 SP: HS-ESS1-4 SP: HS-ESS3-3 SP: HS-ESS3-6 SP: HS-ETS1-4 SP: HS-LS2-1 SP: HS-LS2-2 SP: HS-LS2-4 SP: HS-LS4-6 SP: HS-PS1-7 SP: HS-PS2-2 SP: HS-PS2-4(a) SP: HS-PS2-4(b) SP: HS-PS3-1 SP: HS-PS4-1	<b>rate</b>	4-ESS2-1 MS-ESS3-4 MS-ESS3-5 MS-LS1-5 HS-ESS2-3 HS-ESS2-7 HS-ESS3-5 HS-LS1-3 HS-LS4-5 HS-PS1-5 CC: 5-ESS1-2 CC: MS-ESS2-3 CC: HS-ESS2-1 CC: HS-ESS3-3 CC: HS-ESS3-5 DCI: HS-PS1-4 DCI: HS-PS1-5	<b>relationship</b>	K-ESS3-1 3-LS4-2 3-PS2-3 MS-LS2-1 MS-LS2-2 MS-LS3-2 MS-LS4-2 MS-LS4-3 MS-PS3-1 MS-PS3-4 HS-ESS3-3 HS-ESS3-6 HS-LS2-1 HS-LS3-1 HS-LS4-5 HS-PS1-7 HS-PS2-1 HS-PS4-1 SP: 5 CC: 3-ESS3-1 CC: 3-LS2-1 CC: 3-LS3-2 CC: 3-LS4-2 CC: 3-LS4-3 CC: 3-PS2-1 CC: 3-PS2-3 CC: 4-ESS2-1 CC: 4-ESS3-1 CC: 4-ESS3-2 CC: 4-PS4-2 CC: 5-PS1-4 CC: 5-PS2-1 CC: MS-ESS1-1 CC: MS-ESS2-3 CC: MS-ESS2-5 CC: MS-ESS3-1 CC: MS-ESS3-3 CC: MS-ESS3-4 CC: MS-LS1-2 CC: MS-LS1-4 CC: MS-LS1-5 CC: MS-LS1-8 CC: MS-LS2-1 CC: MS-LS2-2 CC: MS-LS3-1
	<b>reasoning</b>		MS-LS1-4 MS-LS4-4 MS-LS4-6 HS-ESS1-6 HS-LS2-4 HS-LS2-6 HS-LS4-2 HS-PS1-5 HS-PS4-3 SP: 7 SP: 3-LS3-1 SP: 3-LS4-1 SP: 4-ESS2-2 SP: MS-ESS3-4 SP: MS-LS1-4 SP: MS-LS2-4 SP: MS-PS2-4 SP: MS-PS3-5 SP: HS-ESS1-5 SP: HS-ESS1-6 SP: HS-ESS2-7 SP: HS-ESS3-2 SP: HS-LS2-6 SP: HS-LS2-8 SP: HS-LS3-2 SP: HS-LS4-5 SP: HS-PS4-3		

<b>relationship (cont'd)</b>	CC: MS-LS3-2	<b>relationship</b>	SP: HS-LS1-5	<b>reliable</b>	MS-ESS3-2
	CC: MS-LS4-2		SP: HS-LS1-7		MS-LS4-5
	CC: MS-LS4-4		SP: HS-LS2-5		MS-PS4-3
	CC: MS-LS4-5		SP: HS-LS2-6		HS-PS4-4
	CC: MS-LS4-6		SP: HS-LS2-8		DCI: MS-PS4-3
	CC: MS-PS1-4		SP: HS-LS3-1		SP: 3-ESS2-2
	CC: MS-PS2-3		SP: HS-PS1-1		SP: 4-ESS3-1
	CC: MS-PS2-5		SP: HS-PS1-4		SP: 5-ESS3-1
	CC: MS-PS3-1		SP: HS-PS1-3		SP: MS-ESS1-4
	CC: MS-PS3-4		SP: HS-PS2-1		SP: MS-ESS2-2
	CC: HS-PS3-5		SP: HS-PS2-4		SP: MS-ESS3-1
	CC: HS-PS4-4		SP: HS-PS3-2		SP: MS-LS1-5
	DCI: 2-LS2-1		SP: HS-PS3-5		SP: MS-LS1-6
	DCI: 2-LS2-2				SP: HS-ESS1-2
	DCI: 4-PS3-3		MS-ETS1-1		SP: HS-ESS2-2
	DCI: 5-LS2-1	HS-ETS1-4	SP: HS-ESS2-5		
	DCI: MS-LS4-3	SP: 3	SP: HS-ESS3-1		
	DCI: MS-PS1-4	CC: 3-LS4-3	SP: HS-ESS3-5		
	DCI: MS-PS3-3	CC: 4-ESS3-1	SP: HS-LS1-1		
	DCI: MS-PS3-4	CC: 4-PS4-3	SP: HS-LS1-3		
	DCI: HS-LS2-2	DCI: MS-ETS1-1	SP: HS-LS1-6		
	DCI: HS-PS3-2	DCI: MS-PS3-3	SP: HS-LS2-3		
	SP: K-ESS3-1	SP: 3-ESS3-1	SP: HS-LS4-2		
	SP: 2-PS1-4	SP: 3-LS2-1	SP: HS-LS4-4		
	SP: 3-5-ETS1-1	SP: 3-LS4-3	SP: HS-PS1-2		
	SP: 3-ESS2-1	SP: 3-LS4-4	SP: HS-PS1-3		
	SP: 3-LS4-3	SP: 4-LS1-1	SP: HS-PS2-1		
	SP: 3-PS2-3	SP: 5-ESS1-1	SP: HS-PS2-5		
	SP: 3-PS2-4	SP: 5-LS1-1	SP: HS-PS3-4		
	SP: 4-PS3-3	SP: 5-PS2-1			
	SP: 5-ESS1-2	SP: HS-ESS3-2			
	SP: MS-ESS3-5				
	SP: MS-ETS1-1				
SP: MS-LS2-2					
SP: MS-LS4-3					
SP: MS-LS4-4					
SP: MS-PS2-3					
SP: MS-PS3-1					
SP: HS-ESS1-1					
SP: HS-ESS2-1					
SP: HS-ESS2-3					
SP: HS-ESS2-4					
SP: HS-ESS2-6					
SP: HS-LS1-2					
SP: HS-LS1-4					

<b>representation</b>	MS-ESS2-6 MS-LS4-6 MS-PS1-1 MS-PS3-2 MS-PS3-5 MS-PS4-1 HS-ESS1-4 HS-ESS3-6 HS-LS2-1 HS-LS2-2 HS-LS2-4 HS-PS1-4 HS-PS1-7 HS-PS2-2 HS-PS2-4 HS-PS4-4 SP: 5 DCI: K-2-ETS1-2 DCI: K-ESS3-3 DCI: 2-LS2-2 SP: K-ESS2-2 SP: 2-PS1-4 SP: 4-PS4-1 SP: MS-LS4-6 SP: MS-PS4-1 SP: HS-ESS1-4 SP: HS-ESS3-6 SP: HS-LS2-1 SP: HS-LS2-2 SP: HS-LS2-4 SP: HS-PS1-7 SP: HS-PS2-2 SP: HS-PS2-4 SP: HS-PS4-1	<b>research and development [R&amp;D]</b>	CC: HS-ESS1-2 CC: HS-ESS1-4 CC: HS-ESS2-3 CC: HS-PS4-5	<b>risk</b>	BBK CC: 3-5-ETS1-2 CC: 3-ESS3-1 CC: 4-ESS3-2 CC: HS-ESS3-2 CC: HS-ESS3-4 CC: HS-PS3-3 CC: HS-PS4-2 DCI: HS-ESS3-2 DCI: HS-ETS1-1 DCI: HS-PS2-3 DCI: HS-PS3-3 SP: HS-ESS2-5 SP: HS-LS1-3 SP: HS-PS1-3 SP: HS-PS2-5 SP: HS-PS3-4
	<b>research</b>	CC: 3-LS4-3 CC: 4-ESS3-1 CC: 4-PS4-3 CC: MS-ESS3-2 CC: MS-ESS3-3 CC: MS-ETS1-1 CC: MS-LS2-5 CC: MS-PS1-3 CC: MS-PS2-1 DCI: 3-5-ETS1-2 DCI: HS-PS4-5	<b>research question</b>		BBK
		<b>result</b>	5-PS1-4 MS-ESS3-1 MS-LS3-1 MS-LS3-2 HS-ESS1-5 HS-ESS2-1 HS-ESS3-1 HS-ESS3-6 HS-LS2-6 HS-LS4-2 SP: 4 SP: 6 SP: 8 CC: HS-ESS3-3 DCI: 3-ESS3-1 DCI: 3-LS3-2 DCI: 4-ESS3-2 DCI: 4-PS3-2 DCI: 4-PS3-3 DCI: MS-ESS1-1 DCI: MS-ESS2-1 DCI: MS-ESS3-1 DCI: MS-ETS1-4 DCI: MS-LS1-8 DCI: MS-LS3-1 DCI: MS-LS3-2 DCI: MS-PS1-6 DCI: MS-PS3-3 DCI: HS-LS1-7 SP: HS-LS1-3		



<b>scale</b>	MS-ESS1-3	<b>science</b>	BBK	<b>science</b>	SP: 3-PS2-1
	MS-ESS2-2		MS-ESS3-4		SP: 3-PS2-2
	HS-ESS2-1		HS-ESS3-2		SP: 4-PS4-1
	HS-ESS3-4		SP: 1		SP: 5-LS2-1
	HS-LS2-1		SP: 2		SP: MS-ESS2-3
	HS-LS2-2		SP: 3		SP: MS-LS1-6
	HS-PS1-3		SP: 4		SP: MS-LS2-4
	HS-PS1-7		SP: 5		SP: MS-LS4-1
	HS-PS1-8		SP: 6		SP: MS-PS1-2
	HS-PS3-2		SP: 7		SP: MS-PS2-2
	CC: 5-PS2-2		SP: 8		SP: MS-PS2-4
	CC: MS-ESS1-3		CC: 1-ESS1-1		SP: MS-PS3-4
	CC: MS-ESS1-4		CC: 3-ESS3-1		SP: MS-PS3-5
	CC: MS-ESS2-1		CC: 3-LS4-1		SP: MS-PS4-1
	CC: MS-ESS2-2		CC: 4-ESS1-1		SP: HS-ESS1-2
	CC: MS-LS1-1		CC: 5-ESS3-1		SP: HS-ESS1-5
	CC: MS-PS1-1		CC: 5-PS1-2		SP: HS-ESS1-6
	CC: MS-PS2-2		CC: MS-ESS1-1		SP: HS-ESS2-3
	CC: HS-ESS1-1		CC: MS-ESS1-2		SP: HS-ESS2-4
	CC: HS-ESS1-4		CC: MS-ESS1-3		SP: HS-ESS2-7
	CC: HS-ETS1-4		CC: MS-LS1-1		SP: HS-ESS3-2
	CC: HS-LS1-2		CC: MS-LS2-3		SP: HS-ESS3-5
	CC: HS-LS1-4		CC: MS-LS4-1		SP: HS-LS2-6
	CC: HS-LS2-1		CC: MS-LS4-2		SP: HS-LS2-8
	CC: HS-LS2-2		CC: MS-LS4-5		SP: HS-LS3-2
	CC: HS-LS2-5		CC: MS-PS1-3		SP: HS-LS4-1
	CC: HS-LS4-1		CC: MS-PS4-3		SP: HS-LS4-5
	CC: HS-LS4-3		CC: HS-ESS1-2		SP: HS-PS2-1
	CC: HS-PS1-1		CC: HS-ESS1-4		SP: HS-PS2-4
	CC: HS-PS1-2		CC: HS-ESS1-6		SP: HS-PS4-3
	CC: HS-PS1-3		CC: HS-ESS2-3		<b>scientific method</b>
	CC: HS-PS1-5		CC: HS-ESS2-7		BBK
	CC: HS-PS2-4(a)		CC: HS-ESS3-2		<b>scientist</b>
	CC: HS-PS2-4(b)		CC: HS-ESS3-3		BBK
	CC: HS-PS3-5		CC: HS-LS2-6		SP: 3
	CC: HS-PS4-3		CC: HS-LS2-7		SP: 4
	CC: HS-PS4-4		CC: HS-LS3-3		SP: 8
	DCI: MS-ESS1-4		CC: HS-PS1-6		
	DCI: MS-ESS2-2		CC: HS-PS1-7		
	DCI: HS-PS1-1		CC: HS-PS3-1		
DCI: HS-PS1-3	CC: HS-PS4-5				
DCI: HS-PS2-6	DCI: MS-ESS3-5				
DCI: HS-PS3-2	DCI: MS-PS1-4				
DCI: HS-PS3-3	SP: 1-PS4-1				
	SP: 3-LS1-1				

<b>similarity</b>	SP: 7	<b>simulation</b>	MS-LS3-2	<b>sketch</b>	K-2-ETS1-2
	3-LS3-1		MS-PS2-4		DCI: K-2-ETS1-2
	MS-ESS1-3		MS-PS2-5		DCI: K-ESS3-3
	MS-ESS2-3		MS-PS4-2		DCI: 2-LS2-2
	MS-ETS1-3		HS-ETS1-4		MS-ESS3-4
	MS-LS4-2		HS-ESS3-3		MS-LS4-5
	MS-LS4-3		HS-LS1-6		MS-PS1-3
	HS-LS4-1		HS-LS2-1		CC: MS-ESS3-4
	SP: 1		HS-LS2-5		CC: MS-LS2-5
	CC: 3-LS3-1		HS-LS4-6		CC: MS-LS4-5
	CC: 4-PS4-1		HS-PS3-2		CC: HS-ESS2-2
	CC: 4-PS4-3		SP: 2		CC: HS-ETS1-1
	CC: 5-ESS1-2		SP: 5		CC: HS-ETS1-3
	DCI: MS-LS4-2		DCI: HS-ESS3-6		CC: HS-LS3-3
	DCI: MS-LS4-3		DCI: HS-ETS1-4		CC: HS-PS3-3
	DCI: HS-LS4-1		DCI: HS-LS4-6		DCI: HS-ESS3-1
	SP: MS-ESS1-3		SP: HS-ESS1-2		DCI: HS-ETS1-1
	SP: MS-ESS3-2		SP: HS-ESS1-4		DCI: HS-PS2-3
	SP: MS-ETS1-3		SP: HS-ESS3-1		DCI: HS-PS3-3
	SP: MS-LS4-1		SP: HS-ESS3-3		
	SP: MS-PS1-2		SP: HS-ESS3-6		<b>solution</b>
	SP: HS-ETS1-1	K-ESS3-3			
	SP: HS-ETS1-4	K-PS2-2			
	SP: HS-LS1-1	1-LS1-1			
	SP: HS-LS1-6	2-ESS2-1			
	SP: HS-LS2-1	3-5-ETS1-2			
	SP: HS-LS2-2	3-LS4-4			
	SP: HS-LS2-3	4-ESS3-2			
	SP: HS-LS2-4	4-PS4-3			
	SP: HS-LS3-1	MS-ESS3-3			
	SP: HS-LS4-2	MS-ETS1-1			
	SP: HS-LS4-4	MS-PS2-1			
	SP: HS-LS4-6	HS-ESS3-4			
	SP: HS-PS1-2	HS-ETS1-4			
	SP: HS-PS1-7	HS-ETS1-1			
	SP: HS-PS2-2	HS-ETS1-2			
	SP: HS-PS2-4(a)	HS-ETS1-3			
	SP: HS-PS2-4(b)	HS-LS2-7			
	SP: HS-PS3-1	HS-LS4-6			
	SP: HS-PS4-1	SP: 1			
	SP: HS-PS4-2	SP: 2			
	SP: HS-PS4-2	SP: 4			
		SP: 6			
		SP: 7			
		CC: HS-ESS3-2			
		DCI: K-2-ETS1-1			
		DCI: K-2-ETS1-2			
<b>size</b>	BBK				

<b>solution (cont'd)</b>	DCI: K-2-ETS1-3	<b>solution</b>	SP: 3-5-ETS1-3	<b>solution</b>	SP: MS-LS4-2
	DCI: K-ESS3-3		SP: 3-ESS3-1		SP: MS-LS4-6
	DCI: K-PS2-2		SP: 3-LS1-1		SP: MS-LS4-4
	DCI: 2-ESS2-1		SP: 3-LS2-1		SP: MS-PS1-6
	DCI: 2-LS2-2		SP: 3-LS3-2		SP: MS-PS2-1
	DCI: 3-5-ETS1-1		SP: 3-LS4-2		SP: MS-PS2-2
	DCI: 3-5-ETS1-3		SP: 3-LS4-3		SP: MS-PS2-4
	DCI: 4-ESS3-2		SP: 3-LS4-4		SP: MS-PS2-5
	DCI: 4-PS3-4		SP: 3-PS2-1		SP: MS-PS3-3
	DCI: 4-PS4-3		SP: 3-PS2-2		SP: MS-PS3-4
	DCI: MS-ETS1-1		SP: 4-ESS1-1		SP: MS-PS3-5
	DCI: MS-ETS1-2		SP: 4-ESS2-1		SP: MS-PS4-1
	DCI: MS-ETS1-3		SP: 4-ESS3-2		SP: HS-ESS1-2
	DCI: MS-ETS1-4		SP: 4-LS1-1		SP: HS-ESS1-5
	DCI: MS-LS2-5		SP: 4-PS3-1		SP: HS-ESS1-6
	DCI: MS-PS1-6		SP: 4-PS3-2		SP: HS-ESS2-2
	DCI: MS-PS3-3		SP: 4-PS3-4		SP: HS-ESS3-1
	DCI: HS-ESS3-2		SP: 4-PS4-3		SP: HS-ESS3-2
	DCI: HS-ESS3-4		SP: 4-PS4-2		SP: HS-ESS3-4
	DCI: HS-ETS1-3		SP: 5-ESS1-1		SP: HS-ESS3-6
	DCI: HS-LS2-7		SP: 5-ESS2-1		SP: HS-ETS1-1
	DCI: HS-LS4-6		SP: 5-ESS2-2		SP: HS-ETS1-2
	SP: K-2-ETS1-2		SP: 5-ESS3-1		SP: HS-ETS1-3
	SP: K-ESS3-1		SP: 5-LS1-1		SP: HS-ETS1-4
	SP: K-ESS3-3		SP: 5-LS2-1		SP: HS-LS1-1
	SP: K-PS2-1		SP: 5-PS1-1		SP: HS-LS1-6
	SP: K-PS3-1		SP: 5-PS1-2		SP: HS-LS2-1
	SP: K-PS3-2		SP: 5-PS1-3		SP: HS-LS2-2
	SP: 1-ESS1-2		SP: 5-PS1-4		SP: HS-LS2-4
	SP: 1-LS1-1		SP: MS-ESS1-4		SP: HS-LS2-4
	SP: 1-LS3-1		SP: MS-ESS2-2		SP: HS-LS2-6
	SP: 1-PS4-1		SP: MS-ESS2-5		SP: HS-LS2-7
	SP: 1-PS4-2		SP: MS-ESS3-1		SP: HS-LS4-2
	SP: 1-PS4-3		SP: MS-ESS3-3		SP: HS-LS4-4
	SP: 1-PS4-4		SP: MS-ESS3-4		SP: HS-LS4-5
	SP: 2-ESS1-1		SP: MS-ETS1-1		SP: HS-PS1-2
	SP: 2-ESS2-1		SP: MS-ETS1-2		SP: HS-PS1-5
	SP: 2-ESS2-2		SP: MS-LS1-1		SP: HS-PS1-6
	SP: 2-LS2-1		SP: MS-LS1-3		SP: HS-PS2-1
	SP: 2-LS2-2		SP: MS-LS1-4		SP: HS-PS2-3
SP: 2-LS4-1	SP: MS-LS1-5	SP: HS-PS2-5			
SP: 2-PS1-1	SP: MS-LS1-6	SP: HS-PS3-3			
SP: 2-PS1-3	SP: MS-LS2-2	SP: HS-PS3-4			
SP: 3-5-ETS1-1	SP: MS-LS2-4	SP: HS-PS4-3			
SP: 3-5-ETS1-2	SP: MS-LS2-5				

<b>source</b>	1-PS4-2	<b>specific</b>	MS-LS1-2	<b>statistical</b>	MS-ESS1-3
	1-PS4-4		MS-LS4-4		SP: 4
	2-ESS1-1		MS-LS4-6		SP: 5
	MS-LS4-5		MS-PS2-2		SP: MS-ESS1-3
	SP: 4		MS-PS3-4		SP: MS-ESS2-3
	DCI: 4-ESS3-1		HS-LS1-2		SP: MS-ESS3-2
	DCI: HS-ETS1-1		HS-LS4-4		SP: MS-ETS1-3
	DCI: HS-ESS2-3		HS-PS1-3		SP: MS-LS2-1
	DCI: HS-LS3-2		HS-PS2-6		SP: MS-LS4-1
	SP: 2-ESS1-1		CC: HS-ESS2-4		SP: MS-LS4-3
	SP: MS-ESS1-4		CC: HS-ESS3-1		SP: MS-PS1-2
	SP: MS-ESS2-2		CC: HS-LS2-8		SP: MS-PS3-1
	SP: MS-ESS2-2		CC: HS-LS3-1		SP: HS-ESS1-4
	SP: MS-ESS3-1		CC: HS-LS3-2		SP: HS-ESS2-2
	SP: MS-ESS3-3		CC: HS-LS4-2		SP: HS-ESS3-3
	SP: MS-LS1-5		CC: HS-LS4-4		SP: HS-ESS3-5
	SP: MS-LS1-6		CC: HS-LS4-5		SP: HS-ESS3-6
	SP: MS-LS1-8		CC: HS-LS4-6		SP: HS-ETS1-4
	SP: MS-LS2-2		CC: HS-PS2-1		SP: HS-LS2-1
	SP: MS-LS4-2		CC: HS-PS2-5		SP: HS-LS2-2
	SP: MS-LS4-4		CC: HS-PS4-1		SP: HS-LS2-4
	SP: MS-LS4-5		DCI: MS-LS3-1		SP: HS-LS3-3
	SP: MS-PS1-3		DCI: MS-PS3-3		SP: HS-LS4-3
	SP: MS-PS1-6		DCI: MS-PS4-1		SP: HS-LS4-6
	SP: MS-PS2-1		DCI: HS-LS4-3		SP: HS-PS1-7
	SP: MS-PS3-3		DCI: HS-LS4-4		SP: HS-PS2-1
	SP: HS-ESS1-2		SP: K-PS3-2		SP: HS-PS2-2
	SP: HS-ESS1-6		SP: 1-LS1-1		SP: HS-PS2-4(a)
	SP: HS-ESS3-1		SP: 1-PS4-4		SP: HS-PS2-4(b)
	SP: HS-ESS3-4		SP: MS-PS1-6		SP: HS-PS3-1
	SP: HS-ETS1-2				SP: HS-PS4-1
	SP: HS-ETS1-3				
	SP: HS-LS1-1		CC: K-2-ETS1-2		
	SP: HS-LS1-6		CC: 1-LS1-1		
SP: HS-LS2-3	CC: 2-ESS1-1				
SP: HS-LS2-7	CC: 2-ESS2-1				
SP: HS-LS4-2	CC: 2-LS2-2				
SP: HS-LS4-4	CC: MS-ESS2-1				
SP: HS-PS1-2	CC: MS-ESS2-1				
SP: HS-PS1-5	CC: MS-ESS3-5				
SP: HS-PS1-6	CC: MS-PS2-2				
SP: HS-PS2-3	CC: HS-PS4-2				
SP: HS-PS3-3					
	<b>stability</b>				
		<b>standard</b>			
		CC: 5-ESS2-2			
		CC: 5-PS1-2			
		CC: 5-PS1-3			

<b>structure</b>	K-PS2-2	<b>sufficient</b>	MS-ETS1-1	<b>system</b>	CC: 4-LS1-2
	K-PS3-2		SP: HS-ESS1-5		CC: 5-ESS2-1
1-LS1-1	SP: HS-ESS2-7		CC: 5-ESS3-1		
4-LS1-1	SP: HS-ESS3-2		CC: 5-LS1-1		
MS-ESS2-3	SP: HS-LS2-6		CC: 5-LS2-1		
MS-ESS3-4	SP: HS-LS2-8		CC: 5-PS1-2		
MS-LS1-4	SP: HS-LS3-2		CC: MS-ESS1-2		
MS-LS3-1	SP: HS-LS4-5		CC: MS-ESS1-3		
MS-LS4-1	SP: HS-PS4-3		CC: MS-ESS1-4		
MS-LS4-2			CC: MS-ESS2-1		
MS-PS1-1	K-ESS3-1	CC: MS-ESS2-2			
HS-ESS2-3	3-LS4-3	CC: MS-ESS2-3			
HS-LS1-1	5-ESS2-1	CC: MS-ESS2-4			
HS-LS4-1	5-LS2-1	CC: MS-ESS2-5			
HS-PS2-6	MS-ESS1-1	CC: MS-ESS2-6			
CC: K-2-ETS1-2	MS-ESS2-4	CC: MS-ESS3-1			
CC: 1-LS1-1	MS-ESS3-2	CC: MS-ESS3-4			
CC: 2-LS2-2	MS-ESS3-4	CC: MS-LS1-1			
CC: MS-LS1-2	MS-LS1-2	CC: MS-LS1-2			
CC: MS-LS3-1	MS-LS1-3	CC: MS-LS1-3			
CC: MS-PS1-2	MS-LS2-3	CC: MS-LS1-4			
CC: MS-PS1-3	MS-PS2-2	CC: MS-LS1-5			
CC: MS-PS4-2	MS-PS2-4	CC: MS-LS1-8			
CC: MS-PS4-3	MS-PS3-2	CC: MS-LS2-1			
CC: HS-ESS2-5	HS-ETS1-4	CC: MS-LS2-3			
CC: HS-LS1-1	HS-ESS2-2	CC: MS-LS2-4			
CC: HS-PS2-6	HS-ESS2-4	CC: MS-LS2-5			
DCI: 4-ESS2-2	HS-ESS2-5	CC: MS-LS3-1			
DCI: 4-LS1-1	HS-ESS2-7	CC: MS-LS3-2			
DCI: MS-LS1-2	HS-ESS3-2	CC: MS-LS4-1			
DCI: MS-LS3-1	HS-ESS3-5	CC: MS-LS4-2			
DCI: MS-PS1-1	HS-ESS3-6	CC: MS-LS4-4			
DCI: HS-ESS2-3	HS-LS1-1	CC: MS-LS4-5			
DCI: HS-LS2-4	HS-LS1-2	CC: MS-LS4-6			
DCI: HS-PS1-1	HS-PS2-2	CC: MS-PS1-1			
DCI: HS-PS1-3	HS-PS3-1	CC: MS-PS1-3			
DCI: HS-PS2-6	HS-PS3-4	CC: MS-PS1-4			
	SP: 2	CC: MS-PS1-6			
	SP: 5	CC: MS-PS2-1			
	SP: 6	CC: MS-PS2-2			
	CC: K-ESS2-2	CC: MS-PS2-3			
	CC: K-ESS3-1	CC: MS-PS2-4			
	CC: 1-ESS1-1	CC: MS-PS2-5			
	CC: 3-LS4-4	CC: MS-PS3-2			
	CC: 4-ESS1-1	CC: MS-PS3-3			
	CC: 4-LS1-1				

<b>system (cont'd)</b>	CC: HS-ESS1-2	<b>system</b>	DCI: 5-ESS2-1	<b>system</b>	SP: MS-PS1-4
	CC: HS-ESS2-1		DCI: 5-ESS3-1		SP: MS-PS1-5
	CC: HS-ESS2-2		DCI: MS-ESS2-1		SP: MS-PS2-1
	CC: HS-ESS2-3		DCI: MS-ESS2-2		SP: MS-PS3-2
	CC: HS-ESS2-5		DCI: MS-ESS3-3		SP: MS-PS3-3
	CC: HS-ESS2-6		DCI: MS-LS1-3		SP: MS-PS4-2
	CC: HS-ESS3-1		DCI: MS-PS1-4		SP: HS-ESS1-1
	CC: HS-ESS3-2		DCI: MS-PS3-2		SP: HS-ESS1-3
	CC: HS-ESS3-3		DCI: MS-PS3-3		SP: HS-ESS2-1
	CC: HS-ESS3-4		DCI: MS-PS3-4		SP: HS-ESS2-3
	CC: HS-ESS3-5		DCI: HS-ESS2-1		SP: HS-ESS2-4
	CC: HS-ESS3-6		DCI: HS-ESS2-2		SP: HS-ESS2-6
	CC: HS-ETS1-4		DCI: HS-ESS1-5		SP: HS-ESS3-3
	CC: HS-LS1-1		DCI: HS-ESS2-2		SP: HS-ETS1-4
	CC: HS-LS1-2		DCI: HS-ESS2-4		SP: HS-LS1-2
	CC: HS-LS1-3		DCI: HS-ESS2-7		SP: HS-LS1-4
	CC: HS-LS1-4		DCI: HS-ESS3-3		SP: HS-LS1-5
	CC: HS-LS1-5		DCI: HS-LS1-1		SP: HS-LS1-7
	CC: HS-LS1-6		DCI: HS-LS1-2		SP: HS-LS2-5
	CC: HS-LS1-7		DCI: HS-LS1-3		SP: HS-LS4-1
	CC: HS-LS2-3		DCI: HS-LS1-4		SP: HS-LS4-6
	CC: HS-LS2-4		DCI: HS-LS1-6		SP: HS-PS1-1
	CC: HS-LS2-5		DCI: HS-LS1-7		SP: HS-PS1-2
	CC: HS-LS4-1		DCI: HS-PS2-2		SP: HS-PS1-4
	CC: HS-LS4-3		DCI: HS-PS2-3		SP: HS-PS1-8
	CC: HS-PS1-1		DCI: HS-PS3-1		SP: HS-PS2-6
	CC: HS-PS1-2		DCI: HS-PS3-2		SP: HS-PS3-1
	CC: HS-PS1-3		DCI: HS-PS3-4		SP: HS-PS3-2
	CC: HS-PS1-4		SP: 3-5-ETS1-1		SP: HS-PS3-5
	CC: HS-PS1-5		SP: 3-LS4-4		SP: HS-PS4-5
	CC: HS-PS1-7		SP: 4-LS1-2		
	CC: HS-PS2-2		SP: MS-ESS1-1		HS-PS1-7
	CC: HS-PS2-3		SP: MS-ESS1-2		SP: 5
	CC: HS-PS2-4(a)		SP: MS-ESS2-1		SP: 3-PS2-1
	CC: HS-PS2-4(b)		SP: MS-ESS2-4		SP: MS-ESS1-3
	CC: HS-PS2-6		SP: MS-ESS2-6		SP: MS-ESS2-3
	CC: HS-PS3-1		SP: MS-ESS3-3		SP: MS-ESS3-2
	CC: HS-PS3-2		SP: MS-ETS1-1		SP: MS-ETS1-3
	CC: HS-PS3-3		SP: MS-ETS1-4		SP: MS-LS2-1
	CC: HS-PS3-4		SP: MS-LS1-2		SP: MS-LS4-1
CC: HS-PS3-5	SP: MS-LS1-7	SP: MS-LS4-3			
CC: HS-PS4-2	SP: MS-LS2-3	SP: MS-PS1-2			
CC: HS-PS4-3	SP: MS-LS3-1	SP: MS-PS3-1			
CC: HS-PS4-4	SP: MS-LS3-2				
CC: HS-PS4-5	SP: MS-PS1-1				
		<b>technique</b>			

<b>technology</b>	BBK	<b>test</b>	K-2-ETS1-3	<b>theory</b>	HS-ESS1-2
	MS-ESS3-2		3-5-ETS1-3		HS-ESS1-5
	MS-LS4-5		MS-ETS1-3		HS-PS4-3
	HS-ESS3-3		MS-PS3-3		SP: 1
	HS-PS4-5		HS-LS4-6		SP: 3
	SP: 4		SP: 4		SP: 6
	SP: 8		CC: K-PS2-1		DCI: HS-ESS1-2
	CC: K-ESS3-2		CC: K-PS2-2		DCI: HS-ESS1-5
	CC: 1-PS4-4		CC: 1-PS4-1		DCI: HS-ESS2-1
	CC: 2-ESS2-1		CC: 1-PS4-2		SP: MS-ESS1-4
	CC: 3-5-ETS1-1		CC: 1-PS4-3		SP: MS-ESS2-2
	CC: 3-5-ETS1-2		CC: 2-PS1-2		SP: MS-ESS3-1
	CC: 3-ESS3-1		DCI: 3-5-ETS1-3		SP: MS-ESS3-3
	CC: 3-PS2-4		DCI: MS-ETS1-3		SP: MS-LS1-5
	CC: 4-ESS3-1		DCI: MS-ETS1-4		SP: MS-LS1-6
	CC: 4-ESS3-2		DCI: MS-PS1-6		SP: MS-LS2-2
	CC: 4-PS3-4		DCI: MS-PS2-5		SP: MS-LS4-2
	CC: MS-ESS3-2		DCI: MS-PS3-3		SP: MS-LS4-4
	CC: MS-ESS3-3		SP: K-2-ETS1-3		SP: MS-PS1-6
	CC: MS-ETS1-1		SP: K-PS2-1		SP: MS-PS2-1
	CC: MS-LS2-5		SP: K-PS2-2		SP: MS-PS3-3
	CC: MS-PS1-3		SP: K-PS3-1		SP: HS-ESS1-2
	CC: MS-PS2-1		SP: 1-ESS1-2		SP: HS-ESS1-6
	CC: MS-PS4-3		SP: 1-PS4-1		SP: HS-ESS2-3
	CC: HS-ESS2-2		SP: 1-PS4-3		SP: HS-ESS3-1
	CC: HS-ESS3-2		SP: 1-PS4-3		SP: HS-ESS3-4
	CC: HS-ESS3-3		SP: 2-LS2-1		SP: HS-ETS1-2
	CC: HS-ETS1-1		SP: 2-LS4-1		SP: HS-ETS1-3
	CC: HS-ETS1-3		SP: 2-LS4-1		SP: HS-LS1-1
	CC: HS-LS3-3		SP: 2-PS1-1		SP: HS-LS1-6
	CC: HS-PS3-3		SP: 2-PS1-2		SP: HS-LS2-3
	DCI: MS-ESS3-3		SP: 3-5-ETS1-3		SP: HS-LS2-7
	DCI: MS-ESS3-4		SP: 3-PS2-1		SP: HS-LS3-1
	DCI: HS-ESS3-2		SP: 4-PS3-2		SP: HS-LS4-1
DCI: HS-ESS3-4	SP: 5-PS1-4	SP: HS-LS4-2			
DCI: HS-PS4-5		SP: HS-LS4-4			
SP: HS-ESS2-2		SP: HS-PS1-2			
SP: HS-ESS3-5		SP: HS-PS1-5			
SP: HS-PS2-1		SP: HS-PS1-6			
		SP: HS-PS2-1			
		SP: HS-PS2-3			
		SP: HS-PS2-4			
		SP: HS-PS3-3			
		SP: HS-PS4-3			

<b>time</b>	K-ESS2-1	<b>time</b>	DCI: HS-ESS2-4	<b>type</b>	K-LS1-1
	1-ESS1-2		DCI: HS-LS2-2		3-LS4-1
	3-5-ETS1-1	DCI: HS-LS2-6	3-LS4-4		
4-ESS1-1	SP: 3-5-ETS1-1	<b>total</b>	SP: HS-ESS2-5	4-LS1-2	5-PS1-2
4-PS3-4	SP: HS-LS1-3		SP: HS-PS1-3	MS-ESS2-3	
MS-ESS1-4	SP: HS-PS2-5	<b>trigonometric</b>	SP: HS-PS3-4	MS-LS1-1	MS-LS2-2
MS-ESS2-2	5-PS1-2		MS-PS1-5	MS-PS1-1	MS-PS1-6
MS-ESS2-5	MS-PS1-5	HS-PS1-4	MS-PS3-4	MS-PS1-6	MS-PS3-4
MS-LS4-6	HS-PS2-2	HS-PS2-2	HS-ESS3-1	MS-PS1-6	MS-PS3-4
HS-LS4-4	CC: HS-ESS1-3	CC: HS-ESS1-3	HS-ESS3-1	MS-PS1-6	MS-PS3-4
HS-PS2-1	CC: HS-ESS2-6	CC: HS-ESS2-6	HS-ESS3-4	MS-PS1-6	MS-PS3-4
CC: 3-5-ETS1-1	CC: HS-PS1-7	CC: HS-PS1-7	HS-ESS3-4	MS-PS1-6	MS-PS3-4
CC: 3-LS4-1	CC: HS-PS1-8	CC: HS-PS1-8	HS-ESS3-4	MS-PS1-6	MS-PS3-4
CC: 4-ESS3-1	DCI: 5-PS1-2	DCI: 5-PS1-2	HS-ESS3-4	MS-PS1-6	MS-PS3-4
CC: 5-PS1-2	DCI: MS-PS1-4	DCI: MS-PS1-4	HS-ESS3-4	MS-PS1-6	MS-PS3-4
CC: 5-PS1-3	DCI: MS-PS1-5	DCI: MS-PS1-5	HS-ESS3-4	MS-PS1-6	MS-PS3-4
CC: MS-ESS1-3	DCI: MS-PS2-2	DCI: MS-PS2-2	HS-ESS3-4	MS-PS1-6	MS-PS3-4
CC: MS-ESS1-4	DCI: MS-PS3-3	DCI: MS-PS3-3	HS-ESS3-4	MS-PS1-6	MS-PS3-4
CC: MS-ESS2-1	DCI: MS-PS3-4	DCI: MS-PS3-4	HS-ESS3-4	MS-PS1-6	MS-PS3-4
CC: MS-ESS2-2	DCI: HS-PS1-8	DCI: HS-PS1-8	HS-ESS3-4	MS-PS1-6	MS-PS3-4
CC: MS-ESS3-2	DCI: HS-PS2-2	DCI: HS-PS2-2	HS-ESS3-4	MS-PS1-6	MS-PS3-4
CC: MS-ESS3-3	DCI: HS-PS2-3	DCI: HS-PS2-3	HS-ESS3-4	MS-PS1-6	MS-PS3-4
CC: MS-ESS3-5	DCI: HS-PS3-1	DCI: HS-PS3-1	HS-ESS3-4	MS-PS1-6	MS-PS3-4
CC: MS-LS2-5	DCI: HS-PS3-2	DCI: HS-PS3-2	HS-ESS3-4	MS-PS1-6	MS-PS3-4
CC: MS-PS1-1	SP: HS-ESS1-4	SP: HS-ESS1-4	HS-ESS3-4	MS-PS1-6	MS-PS3-4
CC: MS-PS1-3	SP: HS-ESS3-3	SP: HS-ESS3-3	HS-ESS3-4	MS-PS1-6	MS-PS3-4
CC: MS-PS2-2	SP: HS-ESS3-6	SP: HS-ESS3-6	HS-ESS3-4	MS-PS1-6	MS-PS3-4
CC: MS-PS3-1	SP: HS-ETS1-4	SP: HS-ETS1-4	HS-ESS3-4	MS-PS1-6	MS-PS3-4
CC: MS-PS3-4	SP: HS-LS2-1	SP: HS-LS2-1	HS-ESS3-4	MS-PS1-6	MS-PS3-4
CC: HS-ESS2-1	SP: HS-LS2-2	SP: HS-LS2-2	HS-ESS3-4	MS-PS1-6	MS-PS3-4
CC: HS-ESS3-3	SP: HS-LS2-4	SP: HS-LS2-4	HS-ESS3-4	MS-PS1-6	MS-PS3-4
CC: HS-ESS3-5	SP: HS-LS4-6	SP: HS-LS4-6	HS-ESS3-4	MS-PS1-6	MS-PS3-4
DCI: K-ESS2-1	SP: HS-PS1-7	SP: HS-PS1-7	HS-ESS3-4	MS-PS1-6	MS-PS3-4
DCI: 2-ESS1-1	SP: HS-PS2-2	SP: HS-PS2-2	HS-ESS3-4	MS-PS1-6	MS-PS3-4
DCI: 3-ESS2-1	SP: HS-PS2-4(a)	SP: HS-PS2-4(a)	HS-ESS3-4	MS-PS1-6	MS-PS3-4
DCI: 4-ESS1-1	SP: HS-PS2-4(b)	SP: HS-PS2-4(b)	HS-ESS3-4	MS-PS1-6	MS-PS3-4
DCI: 4-ESS3-1	SP: HS-PS3-1	SP: HS-PS3-1	HS-ESS3-4	MS-PS1-6	MS-PS3-4
DCI: 5-ESS1-2	SP: HS-PS4-1	SP: HS-PS4-1	HS-ESS3-4	MS-PS1-6	MS-PS3-4
DCI: MS-ESS1-4			HS-ESS3-4	MS-PS1-6	MS-PS3-4
DCI: MS-ESS2-6			HS-ESS3-4	MS-PS1-6	MS-PS3-4
DCI: MS-LS2-4			HS-ESS3-4	MS-PS1-6	MS-PS3-4
DCI: MS-LS4-6			HS-ESS3-4	MS-PS1-6	MS-PS3-4
DCI: MS-PS3-5			HS-ESS3-4	MS-PS1-6	MS-PS3-4
DCI: HS-ESS1-2			HS-ESS3-4	MS-PS1-6	MS-PS3-4
DCI: HS-ESS1-3			HS-ESS3-4	MS-PS1-6	MS-PS3-4



<b>valid</b>	HS-PS4-4 SP SP: MS-ESS1-4 SP: MS-ESS2-2 SP: MS-ESS3-1 SP: MS-LS1-5 SP: MS-LS1-6 SP: MS-LS1-8 SP: MS-LS4-5 SP: MS-PS1-3 SP: MS-PS4-3 SP: HS-ESS1-2 SP: HS-ESS1-3 SP: HS-ESS2-2 SP: HS-ESS3-1 SP: HS-ESS3-5 SP: HS-LS1-1 SP: HS-LS1-6 SP: HS-LS2-3 SP: HS-LS4-1 SP: HS-LS4-2 SP: HS-LS4-4 SP: HS-PS1-2 SP: HS-PS2-1 SP: HS-PS2-6 SP: HS-PS4-4 SP: HS-PS4-5	<b>variable</b>	3-5-ETS1-3 4-ESS2-1 SP: 3 SP: 5 CC: HS-ESS1-4 CC: HS-LS3-3 SP: 3-5-ETS1-2 SP: 3-5-ETS1-3 SP: 3-LS3-2 SP: 3-LS4-2 SP: 3-PS2-1 SP: 3-PS2-2 SP: 4-ESS1-1 SP: 4-ESS2-1 SP: 4-ESS3-2 SP: 4-PS3-1 SP: 4-PS3-2 SP: 4-PS3-4 SP: 4-PS4-3 SP: 5-PS1-3 SP: 5-PS1-4 SP: MS-ESS2-5 SP: MS-ESS3-5 SP: MS-ETS1-1 SP: MS-LS1-1 SP: MS-LS2-2 SP: MS-LS4-4 SP: MS-PS2-2 SP: MS-PS2-3 SP: MS-PS3-4 SP: HS-ESS1-1 SP: HS-ESS2-1 SP: HS-ESS2-3 SP: HS-ESS2-4 SP: HS-ESS2-6 SP: HS-LS1-2 SP: HS-LS1-4 SP: HS-LS1-5 SP: HS-LS1-7 SP: HS-LS2-5 SP: HS-PS1-1 SP: HS-PS1-4 SP: HS-PS1-8 SP: HS-PS3-2 SP: HS-PS3-5	<b>various</b>	5-ESS2-2 MS-LS2-3 MS-PS4-2 HS-PS4-1 CC: K-ESS3-2 CC: 1-PS4-4 CC: 2-ESS2-3 CC: 3-ESS2-1 CC: 3-PS2-2 CC: 4-PS3-1 CC: 4-PS3-2 CC: 4-PS3-3 CC: 4-PS3-4 CC: 5-PS3-1 CC: MS-ESS1-3 CC: MS-ESS1-4 CC: MS-ESS2-2 CC: MS-PS1-1 CC: HS-ESS2-5 DCI: 4-LS1-1 DCI: MS-LS4-2 DCI: MS-PS1-1 DCI: HS-ETS1-4 DCI: HS-LS4-6 DCI: HS-PS3-1 DCI: HS-PS3-2
	<b>value</b>		CC: MS-ESS3-2 CC: MS-ESS3-3 CC: MS-ETS1-1 CC: MS-LS2-5 CC: MS-PS1-3 CC: MS-PS2-1 CC: HS-ESS3-2 CC: HS-LS1-3 DCI: HS-LS2-7 DCI: HS-LS4-6 DCI: HS-PS4-2 DCI: HS-PS4-5		

# Cognitive Verbs

Term	Source
<b>accept</b>	SP: 6
	SP: HS-ESS1-2
	SP: HS-ESS1-5
	SP: HS-ESS1-6
	SP: HS-LS2-6
	SP: HS-LS2-8
	SP: HS-LS4-1
	SP: HS-LS4-5
	SP: HS-PS4-3
<b>accommodate</b>	CC: HS-ESS1-2
	CC: HS-ESS1-6
	CC: HS-LS4-1
	CC: HS-PS4-3
<b>account</b>	HS-ETS1-3
	HS-PS3-2
<b>accumulate</b>	SP: 6
	CC: MS-ESS3-5
<b>achieve</b>	MS-ETS1-4
	SP: 7
	DCI: MS-PS2-2
	DCI: HS-ESS1-2
<b>acquire</b>	DCI: HS-ESS1-3
	DCI: 5-LS1-1
<b>address</b>	DCI: MS-LS3-2
	DCI: HS-ETS1-1
<b>address</b>	SP: 5-ESS2-2
	SP: 5-PS1-2

<b>affect</b>	3-LS3-2
	3-PS2-3
	4-ESS3-1
	MS-LS1-4
	MS-LS1-5
	MS-LS2-4
	MS-LS3-1
	MS-PS2-3
	HS-ESS3-1
	HS-ESS3-3
	HS-LS2-1
	HS-LS2-2
	HS-LS4-5
	HS-PS1-4
	CC: 3-ESS3-1
	CC: 4-PS3-4
	DCI: K-ESS2-2
	DCI: K-ESS3-3
	DCI: 3-LS3-2
	DCI: 3-LS4-4
	DCI: 4-ESS2-1
	DCI: 4-ESS3-1
	DCI: 5-ESS2-1
	DCI: MS-ESS2-6
	DCI: MS-LS1-5
	DCI: MS-LS3-1
	DCI: HS-ESS2-4
	DCI: HS-ESS2-6
	DCI: HS-LS2-1
	DCI: HS-LS2-2
	DCI: HS-LS3-2
	DCI: HS-LS3-3
DCI: HS-LS4-3	

<b>allow</b>	4-PS4-2
	MS-ESS3-2
	HS-ESS1-1
	CC: HS-LS2-2
	DCI: 1-PS4-3
	DCI: HS-ESS1-2
	DCI: HS-ESS1-5
	DCI: HS-ESS1-6
	DCI: HS-ESS2-7
	DCI: HS-LS1-3
DCI: HS-LS1-4	
DCI: HS-PS3-1	
<b>analyze</b>	K-2-ETS1-3
	K-PS2-2
	2-PS1-2
	3-LS3-1
	3-LS4-1
	4-ESS2-2
	MS-ESS1-3
	MS-ESS2-3
	MS-ESS3-2
	MS-ETS1-3
	MS-LS2-1
	MS-LS4-1
	MS-LS4-3
	MS-PS1-2
	HS-ESS2-2
	HS-ESS3-5
	HS-ETS1-1
	HS-PS2-1
	SP: 2
	SP: 4
	SP: 5
	CC: 5-ESS1-2
	CC: MS-LS3-1
	CC: HS-ESS3-6
	CC: HS-PS3-4
	SP: K-2-ETS1-3
	SP: K-PS2-2
	SP: 2-PS1-2

<b>analyze (cont'd)</b>	SP: 3-LS4-1	<b>answer</b>	SP: 1	<b>apply</b>	3-PS2-4
	SP: 3-PS3-1		CC: 5-ESS3-1		4-PS3-4
	SP: 4-ESS2-2		CC: HS-ESS3-2		MS-ESS3-3
	SP: 5-ESS2-2		SP: K-ESS2-1		MS-LS4-2
	SP: 5-PS1-2		SP: K-LS1-1		MS-PS2-1
	SP: MS-ESS1-3		SP: K-PS2-1		MS-PS3-3
	SP: MS-ESS2-3		SP: K-PS3-1		HS-ESS1-4
	SP: MS-ESS3-2		SP: 1-ESS1-1		HS-ESS1-6
	SP: MS-ETS1-3		SP: 1-ESS1-2		HS-LS3-3
	SP: MS-LS1-2		SP: 1-PS4-1		HS-LS4-3
	SP: MS-LS2-1		SP: 1-PS4-3		HS-PS1-5
	SP: MS-LS4-1		SP: 2-ESS2-3		HS-PS2-3
	SP: MS-LS4-3		SP: 2-LS2-1		SP: 5
	SP: MS-PS1-2		SP: 2-LS4-1		SP: 8
	SP: HS-ESS1-4		SP: 2-PS1-1		CC: 1-LS1-1
	SP: HS-ESS2-2		SP: 3-5-ETS1-3		CC: 2-PS1-2
	SP: HS-ESS3-3		SP: 3-PS2-1		CC: HS-ESS3-2
	SP: HS-ESS3-5		SP: 3-PS2-2		CC: HS-ESS3-4
	SP: HS-ESS3-6		SP: 4-ESS2-1		CC: HS-PS3-3
	SP: HS-ETS1-1		SP: 4-PS3-2		CC: HS-PS4-2
SP: HS-ETS1-4	SP: 5-PS1-3	DCI: MS-ESS3-5			
SP: HS-LS2-1	SP: 5-PS1-4	SP: 4-PS3-4			
SP: HS-LS2-2	SP: MS-ESS2-5	SP: MS-ESS3-3			
SP: HS-LS2-4	SP: MS-PS2-2	SP: MS-LS4-2			
SP: HS-LS3-3	SP: MS-PS2-5	SP: MS-PS2-1			
SP: HS-LS4-3	SP: MS-PS3-4	SP: MS-PS3-3			
SP: HS-LS4-6	SP: HS-PS2-5	SP: HS-ESS1-6			
SP: HS-PS1-7	SP: HS-PS3-4	SP: HS-LS3-3			
SP: HS-PS2-1		SP: HS-LS4-3			
SP: HS-PS2-2		SP: HS-PS1-5			
SP: HS-PS2-4(a)		SP: HS-PS2-3			
SP: HS-PS2-4(b)					
SP: HS-PS3-1					
SP: HS-PS4-1					
	<b>anticipate</b>	CC: HS-ESS2-2			
		CC: HS-ESS3-3			
		CC: HS-ETS1-1			
		CC: HS-ETS1-3			
				<b>approach</b>	DCI: K-2-ETS1-1
					DCI: K-PS2-2
					DCI: HS-ETS1-2
					DCI: HS-PS1-6
					DCI: HS-PS2-3
					SP: 3-ESS2-1
					SP: 3-LS3-1
					SP: 3-LS4-1
					SP: 4-ESS2-2
					SP: 5-ESS1-2
				<b>argue</b>	Marzano Research
				<b>arrange</b>	Marzano Research

<b>ask</b>	K-2-ETS1-1 K-ESS3-2 3-PS2-3 4-PS3-3 MS-ESS3-5 MS-PS2-3 HS-LS3-1 SP: 1 DCI: K-2-ETS1-1 DCI: K-ESS3-2 SP: K-2-ETS1-1 SP: K-ESS3-2 SP: 3-5-ETS1-1 SP: 3-PS2-3 SP: 3-PS2-4 SP: 4-PS3-3 SP: MS-ESS3-5 SP: MS-ETS1-1 SP: MS-PS2-3 SP: HS-ETS1-1 SP: HS-LS3-1 SP: HS-PS4-2	<b>begin</b>	DCI: 4-PS3-2 DCI: 4-PS3-4 DCI: HS-LS1-4 SP: 1-PS4-1	<b>build</b>	SP: 2-PS1-3 SP: 2-PS1-4 SP: 3-5-ETS1-1 SP: 3-5-ETS1-2 SP: 3-5-ETS1-3 SP: 3-ESS2-1 SP: 3-ESS2-2 SP: 3-ESS3-1 SP: 3-LS1-1 SP: 3-LS2-1 SP: 3-LS3-1 SP: 3-LS3-2 SP: 3-LS4-1 SP: 3-LS4-2 SP: 3-LS4-3 SP: 3-PS2-1 SP: 3-PS2-2 SP: 3-PS2-3 SP: 3-PS2-4 SP: 4-ESS1-1 SP: 4-ESS2-1 SP: 4-ESS2-2 SP: 4-ESS3-1 SP: 4-ESS3-2 SP: 4-LS1-1 SP: 4-LS1-2 SP: 4-PS3-1 SP: 4-PS3-2 SP: 4-PS3-3 SP: 4-PS3-4 SP: 4-PS4-1 SP: 4-PS4-2 SP: 4-PS4-3 SP: 5-ESS1-1 SP: 5-ESS1-2 SP: 5-ESS2-1 SP: 5-ESS2-2 SP: 5-ESS3-1 SP: 5-LS1-1 SP: 5-LS2-1 SP: 5-PS1-1 SP: 5-PS1-2 SP: 5-PS1-3 SP: 5-PS1-4 SP: 5-PS2-1
	<b>assemble</b>		2-PS1-3 DCI: HS-LS1-6		<b>build</b>
<b>assess</b>	MS-ESS3-3 HS-PS1-7 SP: 5 SP: MS-LS1-8 SP: MS-LS4-5 SP: MS-PS1-3 SP: HS-ESS1-6	<b>build</b>	K-PS3-2 1-PS4-4 2-PS1-3 4-ESS3-2 MS-ESS3-2 MS-LS1-4 HS-LS2-7 HS-PS3-3 CC: 1-LS1-1 CC: 2-PS1-2 SP: K-2-ETS1-1 SP: K-2-ETS1-2 SP: K-2-ETS1-3 SP: K-ESS2-1 SP: K-ESS2-2 SP: K-ESS3-1 SP: K-ESS3-2 SP: K-ESS3-3 SP: K-LS1-1 SP: K-PS2-1 SP: K-PS2-2 SP: K-PS3-1 SP: K-PS3-2 SP: 1-ESS1-1 SP: 1-ESS1-2 SP: 1-LS1-1 SP: 1-LS1-2 SP: 1-LS3-1 SP: 1-PS4-1 SP: 1-PS4-2 SP: 1-PS4-3 SP: 1-PS4-4 SP: 2-ESS1-1 SP: 2-ESS2-1 SP: 2-ESS2-2 SP: 2-ESS2-3 SP: 2-LS2-1 SP: 2-LS2-2 SP: 2-LS4-1 SP: 2-PS1-1 SP: 2-PS1-2	<b>build</b>	
<b>assume</b>	CC: 1-ESS1-1 CC: 3-LS4-1 CC: 4-ESS1-1 CC: 5-PS1-2 CC: MS-ESS1-1 CC: MS-ESS1-2 CC: MS-LS2-3 CC: MS-LS4-1 CC: MS-LS4-2 CC: HS-ESS1-2 CC: HS-LS4-1 CC: HS-LS4-4 CC: HS-PS1-7 CC: HS-PS3-1				

<b>build</b> <b>(cont'd)</b>	SP: 5-PS3-1	<b>build</b>	SP: MS-PS2-1	<b>build</b>	SP: HS-LS2-4
	SP: MS-ESS1-1		SP: MS-PS2-2		SP: HS-LS2-5
	SP: MS-ESS1-2		SP: MS-PS2-3		SP: HS-LS2-6
	SP: MS-ESS1-3		SP: MS-PS2-4		SP: HS-LS2-7
	SP: MS-ESS1-4		SP: MS-PS3-1		SP: HS-LS2-8
	SP: MS-ESS2-1		SP: MS-PS3-2		SP: HS-LS3-1
	SP: MS-ESS2-3		SP: MS-PS3-3		SP: HS-LS3-2
	SP: MS-ESS2-4		SP: MS-PS3-4		SP: HS-LS3-3
	SP: MS-ESS2-5		SP: MS-PS3-5		SP: HS-LS3-1
	SP: MS-ESS2-6		SP: MS-PS4-1		SP: HS-LS3-2
	SP: MS-ESS3-1		SP: MS-PS4-2		SP: HS-LS3-3
	SP: MS-ESS3-2		SP: MS-PS4-3		SP: HS-LS3-4
	SP: MS-ESS3-3		SP: HS-ESS1-1		SP: HS-LS3-5
	SP: MS-ESS3-4		SP: HS-ESS1-2		SP: HS-LS3-6
	SP: MS-ESS3-5		SP: HS-ESS1-3		SP: HS-PS1-1
	SP: MS-ETS1-2		SP: HS-ESS1-4		SP: HS-PS1-2
	SP: MS-ETS1-3		SP: HS-ESS1-5		SP: HS-PS1-3
	SP: MS-ETS1-4		SP: HS-ESS1-6		SP: HS-PS1-4
	SP: MS-LS1-1		SP: HS-ESS2-1		SP: HS-PS1-5
	SP: MS-LS1-2		SP: HS-ESS2-2		SP: HS-PS1-6
	SP: MS-LS1-3		SP: HS-ESS2-3		SP: HS-PS1-7
	SP: MS-LS1-4		SP: HS-ESS2-4		SP: HS-PS1-8
	SP: MS-LS1-5		SP: HS-ESS2-5		SP: HS-PS2-1
	SP: MS-LS1-6		SP: HS-ESS2-6		SP: HS-PS2-2
	SP: MS-LS1-7		SP: HS-ESS2-7		SP: HS-PS2-3
	SP: MS-LS1-8		SP: HS-ESS3-1		SP: HS-PS2-4
	SP: MS-LS2-1		SP: HS-ESS3-2		SP: HS-PS2-5
	SP: MS-LS2-2		SP: HS-ESS3-3		SP: HS-PS2-6
	SP: MS-LS2-3		SP: HS-ESS3-4		SP: HS-PS3-1
	SP: MS-LS2-4		SP: HS-ESS3-5		SP: HS-PS3-2
	SP: MS-LS2-5		SP: HS-ESS3-6		SP: HS-PS3-3
	SP: MS-LS3-1		SP: HS-ETS1-1		SP: HS-PS3-4
	SP: MS-LS3-2		SP: HS-ETS1-2		SP: HS-PS3-5
	SP: MS-LS4-1		SP: HS-ETS1-3		SP: HS-PS4-1
	SP: MS-LS4-2		SP: HS-ETS1-4		SP: HS-PS4-2
	SP: MS-LS4-3		SP: HS-LS1-1		SP: HS-PS4-3
	SP: MS-LS4-4		SP: HS-LS1-2		SP: HS-PS4-4
	SP: MS-LS4-5		SP: HS-LS1-3		SP: HS-PS4-5
	SP: MS-LS4-6		SP: HS-LS1-4		
	SP: MS-PS1-1		SP: HS-LS1-5		<b>calculate</b>
SP: MS-PS1-2	SP: HS-LS1-6	HS-PS3-1			
SP: MS-PS1-3	SP: HS-LS1-7	SP: 4			
SP: MS-PS1-4	SP: HS-LS2-1	SP: 5			
SP: MS-PS1-5	SP: HS-LS2-2				
SP: MS-PS1-6	SP: HS-LS2-3				

<b>carry out</b>	3-5-ETS1-3	<b>cause</b>	BBK	<b>change</b>	MS-PS1-5
	HS-LS1-1		K-PS2-2		MS-PS3-2
	SP: 3		2-PS1-4		MS-PS3-5
	DCI: HS-LS1-1		3-LS4-4		HS-LS2-6
	SP: K-PS2-1		4-PS4-1		HS-LS4-5
	SP: K-PS3-1		MS-ESS2-6		HS-PS1-5
	SP: 1-ESS1-2		MS-ESS3-5		CC: 2-ESS1-1
	SP: 1-PS4-1		HS-ESS2-2		CC: 2-PS1-3
	SP: 1-PS4-3		HS-LS3-2		CC: HS-ESS1-6
	SP: 2-LS2-1		CC: MS-LS2-4		CC: HS-ESS3-5
	SP: 2-LS4-1		CC: MS-LS2-5		CC: HS-LS2-6
	SP: 2-PS1-1		CC: HS-PS2-3		CC: HS-LS2-7
	SP: 3-5-ETS1-3		CC: HS-PS4-5		DCI: K-2-ETS1-1
	SP: 3-PS2-1		DCI: 2-PS1-4		DCI: K-ESS2-2
	SP: 3-PS2-2		DCI: 3-PS2-1		DCI: K-PS2-1
	SP: 4-ESS2-1		DCI: 5-ESS1-2		DCI: K-PS2-2
	SP: 4-PS3-2		DCI: MS-ESS1-1		DCI: 2-ESS2-1
	SP: 5-PS1-3		DCI: MS-ESS2-2		DCI: 4-PS3-2
	SP: 5-PS1-4		DCI: MS-PS2-2		DCI: 4-PS3-3
	SP: MS-ESS2-5		DCI: MS-PS3-2		DCI: MS-ESS2-2
SP: MS-LS1-1	DCI: HS-ESS2-1	DCI: MS-LS2-5			
SP: MS-PS2-2	DCI: HS-ESS2-2	DCI: MS-LS3-1			
SP: MS-PS2-5	DCI: HS-ESS2-7	DCI: MS-LS4-6			
SP: MS-PS3-4	DCI: HS-ESS2-4	DCI: MS-PS1-4			
SP: HS-ESS2-5	DCI: HS-LS3-2	DCI: MS-PS1-5			
SP: HS-LS1-3	DCI: HS-PS2-4(a)	DCI: MS-PS2-2			
SP: HS-PS1-3	DCI: HS-PS2-4(b)	DCI: MS-PS3-4			
SP: HS-PS2-5	DCI: HS-PS2-5	DCI: MS-PS3-5			
SP: HS-PS3-4	DCI: HS-PS4-4	DCI: HS-ESS1-1			
					DCI: HS-ESS1-4
		<b>challenge</b>	DCI: HS-LS2-2		DCI: HS-ESS1-6
			DCI: HS-LS2-6		DCI: HS-ESS2-4
			SP: HS-PS4-2		DCI: HS-ESS2-6
		<b>change</b>	K-2-ETS1-1		DCI: HS-ESS3-2
			K-ESS2-2		DCI: HS-LS1-3
			K-PS2-2		DCI: HS-LS4-3
			2-ESS2-1		DCI: HS-LS4-5
			3-LS4-4		DCI: HS-PS2-2
			5-LS2-1		DCI: HS-PS2-3
			MS-ESS2-2		DCI: HS-PS3-5
			MS-ESS2-4		SP: HS-LS2-2
			MS-ESS2-5		SP: HS-LS2-3
			MS-ESS3-1		
			MS-ESS3-4		
			MS-LS2-4		
			MS-LS4-5		
				<b>claim</b>	Marzano Research

<b>clarify</b>	MS-ESS3-5 HS-LS3-1 SP: MS-ESS3-5 SP: MS-ETS1-1 SP: MS-PS2-3 SP: MS-PS4-3 SP: HS-LS2-6 SP: HS-LS2-8 SP: HS-LS3-1	<b>combine</b>	3-ESS2-2 4-ESS3-1 5-ESS3-1 MS-ETS1-3 HS-LS1-6 HS-PS3-4 DCI: MS-ESS3-2 DCI: MS-ETS1-3 DCI: MS-LS1-6 DCI: MS-PS1-1 DCI: HS-LS2-4 SP: 3-ESS2-2 SP: 4-ESS3-1 SP: 5-ESS3-1	<b>compare</b>	K-2-ETS1-3 K-PS2-1 1-ESS1-2 2-ESS2-1 2-LS4-1 3-5-ETS1-2 4-ESS3-2 4-PS4-3 5-ESS1-1 MS-LS4-3 MS-PS3-4 HS-PS1-3 SP: 4 SP: 7 DCI: K-2-ETS1-3 DCI: 2-ESS2-1 DCI: 3-5-ETS1-1 DCI: 4-PS3-4 DCI: MS-LS4-3 DCI: HS-LS4-1 SP: K-ESS2-2 SP: 2-ESS2-1 SP: 2-PS1-4 SP: 3-5-ETS1-2 SP: 4-ESS3-2 SP: 4-PS4-3 SP: 5-ESS2-2 SP: 5-PS1-2
<b>classify</b>	2-PS1-1 CC: 3-LS3-1 CC: 4-PS4-1 CC: 4-PS4-3 CC: 5-ESS1-2 CC: MS-ESS3-3 DCI: 2-PS1-1	<b>communicate</b>	K-ESS3-3 1-PS4-4 HS-ESS1-3 HS-LS4-1 HS-PS1-7 HS-PS2-6 HS-PS4-5 SP: 8 CC: 5-ESS1-2 DCI: 1-PS4-4 DCI: 2-LS2-2 DCI: K-2-ETS1-2 DCI: 3-5-ETS1-2 SP: K-ESS3-2 SP: K-ESS3-3 SP: 1-LS1-2 SP: 2-ESS2-3 SP: 3-ESS2-2 SP: 4-ESS3-1 SP: 5-ESS3-1 SP: MS-LS1-8 SP: MS-LS4-5 SP: MS-PS1-3 SP: MS-PS4-3 SP: HS-ESS1-3 SP: HS-LS4-1 SP: HS-PS2-6 SP: HS-PS4-4 SP: HS-PS4-5		
<b>collaborate</b>	SP: 7 SP: 8				
<b>collect</b>	MS-ESS2-5 SP: 3 SP: 4 SP: K-2-ETS1-3 SP: K-ESS2-1 SP: K-LS1-1 SP: K-PS2-2 SP: K-PS3-1 SP: 1-ESS1-1 SP: 1-ESS1-2 SP: 2-LS4-1 SP: 2-PS1-2 SP: 3-ESS2-1 SP: 3-LS3-1 SP: 3-LS4-1 SP: 4-ESS2-2 SP: 5-ESS1-2 SP: MS-ESS2-5				

<b>conduct</b>	K-PS2-1 1-PS4-1 1-PS4-3 2-LS2-1 2-PS1-1 3-PS2-1 5-PS1-4 MS-LS1-1 MS-PS2-5 HS-ESS2-5 HS-LS1-3 HS-PS1-3 HS-PS2-5 HS-PS3-4 SP: 3 SP: K-PS2-1 SP: 1-PS4-1 SP: 1-PS4-3 SP: 2-LS2-1 SP: 2-PS1-1 SP: 3-5-ETS1-3 SP: 3-ESS2-1 SP: 3-LS3-1 SP: 3-LS4-1 SP: 3-PS2-1 SP: 4-ESS2-2 SP: 5-ESS1-2 SP: 5-PS1-4 SP: MS-LS1-1 SP: MS-PS2-5 SP: HS-ESS2-5 SP: HS-LS1-3 SP: HS-PS1-3 SP: HS-PS2-5 SP: HS-PS3-4	<b>consider</b>	3-5-ETS1-3 HS-ESS3-6 DCI: 3-5-ETS1-1 DCI: 4-PS3-4 DCI: HS-ESS3-2 DCI: HS-ESS3-4 DCI: HS-ETS1-3 DCI: HS-LS2-7 DCI: HS-LS4-6 SP: 3-5-ETS1-3 SP: 3-PS2-1 SP: 5-PS1-4 SP: HS-ESS2-5 SP: HS-LS1-3 SP: HS-PS1-3 SP: HS-PS2-5 SP: HS-PS3-4	<b>construct</b>	HS-ESS2-7 HS-ESS3-1 HS-LS1-1 HS-LS1-6 HS-LS2-3 HS-LS4-2 HS-LS4-4 HS-PS1-2 SP: 5 SP: 6 CC: MS-ESS2-1 CC: MS-PS2-2 CC: HS-ESS1-6 CC: HS-ESS2-7 CC: HS-LS2-6 CC: HS-LS2-7 CC: HS-PS1-6 SP: K-ESS2-2 SP: K-PS3-2 SP: 1-LS1-1 SP: 1-LS3-1 SP: 1-PS4-2 SP: 1-PS4-4 SP: 2-ESS1-1 SP: 2-ESS2-1 SP: 2-PS1-3 SP: 2-PS1-4 SP: 3-5-ETS1-2 SP: 3-LS2-1 SP: 3-LS3-2 SP: 3-LS4-3 SP: 3-LS4-2 SP: 4-ESS1-1 SP: 4-ESS3-2 SP: 4-LS1-1 SP: 4-PS3-1 SP: 4-PS3-4 SP: 4-PS4-3 SP: MS-ESS1-4 SP: MS-ESS2-2 SP: MS-ESS3-1 SP: MS-ESS3-3 SP: MS-ESS3-4 SP: MS-ETS1-2 SP: MS-LS1-3
	<b>confirm</b>		CC: HS-ESS1-2 CC: HS-ESS1-6 CC: HS-LS4-1 CC: HS-PS4-3		K-ESS2-2 1-LS3-1 1-PS4-2 2-PS1-3 2-PS1-4 3-LS2-1 3-LS4-2 3-LS4-3 3-PS2-4 4-LS1-1 4-PS3-1 MS-ESS1-4 MS-ESS2-2 MS-ESS3-1 MS-ESS3-4 MS-LS1-5 MS-LS1-6 MS-LS2-2 MS-LS2-4 MS-LS4-2 MS-LS4-4 MS-PS1-6 MS-PS2-4 MS-PS3-1 MS-PS3-3 MS-PS3-5 HS-ESS1-2 HS-ESS1-6



<b>construct (cont'd)</b>	SP: MS-LS1-4
	SP: MS-LS1-5
	SP: MS-LS1-6
	SP: MS-LS2-2
	SP: MS-LS2-4
	SP: MS-LS4-2
	SP: MS-LS4-4
	SP: MS-PS1-6
	SP: MS-PS2-1
	SP: MS-PS2-4
	SP: MS-PS3-1
	SP: MS-PS3-3
	SP: MS-PS3-5
	SP: HS-ESS1-2
	SP: HS-ESS1-6
	SP: HS-ESS2-7
	SP: HS-ESS3-1
	SP: HS-ESS3-4
	SP: HS-ETS1-2
	SP: HS-ETS1-3
	SP: HS-LS1-1
	SP: HS-LS1-6
	SP: HS-LS2-3
	SP: HS-LS2-7
	SP: HS-LS4-2
	SP: HS-LS4-4
	SP: HS-PS1-2
	SP: HS-PS1-5
	SP: HS-PS1-6
	SP: HS-PS2-3
	SP: HS-PS3-3

<b>continue</b>	CC: HS-ESS1-2
	CC: HS-LS4-1
	CC: HS-LS4-4
	DCI: HS-ESS3-6
	SP: MS-ESS1-4
	SP: MS-ESS2-2
	SP: MS-ESS3-1
	SP: MS-LS1-5
	SP: MS-LS1-6
	SP: HS-ESS1-2
	SP: HS-ESS3-1
	SP: HS-LS1-1
	SP: HS-LS1-6
	SP: HS-LS2-3
	SP: HS-LS4-2
SP: HS-LS4-4	
SP: HS-PS1-2	
<b>contribute</b>	MS-LS1-2
	HS-LS4-4
	DCI: MS-LS3-2
	DCI: HS-LS4-5
	DCI: HS-LS4-6
<b>control</b>	3-5-ETS1-3
	MS-ESS1-2
	HS-ESS2-3
	HS-ESS2-7
	DCI: MS-LS1-2
	DCI: MS-LS3-1
	SP: 3-5-ETS1-3
	SP: 3-PS2-1
	SP: 3-PS2-2
	SP: 4-ESS2-1
	SP: 4-PS3-2
	SP: 5-PS1-3
	SP: 5-PS1-4
	SP: MS-PS1-6
<b>convey</b>	DCI: K-2-ETS1-2
	DCI: K-ESS3-3
	DCI: 1-LS1-1
	DCI: 2-LS2-2
<b>coordinate</b>	SP: HS-ESS2-3

<b>create</b>	3-PS2-4
	MS-LS1-4
	HS-ESS1-3
	HS-ESS2-2
	HS-ESS2-7
	HS-ESS3-3
	HS-LS4-6
	HS-PS3-1
	CC: HS-ESS1-2
	CC: HS-LS1-7
	CC: HS-LS2-4
	CC: HS-PS3-2
	DCI: K-2-ETS1-1
	DCI: K-PS2-2
	DCI: K-PS4-3
	DCI: MS-ESS2-2
	DCI: MS-ETS1-3
	DCI: HS-LS3-2
	DCI: HS-PS3-1
	DCI: HS-PS3-4
	SP: HS-ESS1-4
	SP: HS-ESS3-3
	SP: HS-ESS3-6
	SP: HS-ETS1-4
	SP: HS-LS2-1
	SP: HS-LS2-2
	SP: HS-LS2-4
	SP: HS-LS4-6
	SP: HS-PS1-7
	SP: HS-PS2-2
SP: HS-PS2-4(a)	
SP: HS-PS2-4(b)	
SP: HS-PS3-1	
SP: HS-PS4-1	

<b>critique</b>	SP: 3-ESS3-1 SP: 3-LS2-1 SP: 3-LS4-3 SP: 3-LS4-4 SP: 4-LS1-1 SP: 5-ESS1-1 SP: 5-LS1-1 SP: 5-PS2-1 SP: HS-ESS1-5 SP: HS-ESS2-7 SP: HS-ESS3-2 SP: HS-LS2-6 SP: HS-LS2-8 SP: HS-LS3-2 SP: HS-LS4-5 SP: HS-PS4-3	<b>define</b>	K-2-ETS1-1 3-5-ETS1-1 3-PS2-4 MS-ESS2-5 MS-ETS1-1 MS-LS2-3 SP: 1 CC: HS-ESS3-6 CC: HS-PS2-2 CC: HS-PS3-4 DCI: 5-PS1-3 DCI: MS-ETS1-1 DCI: MS-PS3-3 SP: K-2-ETS1-1 SP: K-ESS3-2 SP: 3-5-ETS1-1 SP: 3-PS2-3 SP: 3-PS2-4 SP: 4-PS3-3 SP: MS-ESS3-5 SP: MS-ETS1-1 SP: MS-PS2-3 SP: HS-ETS1-1 SP: HS-LS3-1 SP: HS-PS4-2	<b>depend</b>	3-LS4-3 MS-PS2-2 MS-PS2-4 HS-LS1-2 HS-PS4-4 CC: K-ESS3-2 CC: 1-PS4-4 CC: MS-LS1-2 CC: MS-LS3-1 CC: HS-ESS1-1 CC: HS-ESS3-1 CC: HS-ESS3-3 CC: HS-LS2-1 CC: HS-PS3-3 CC: HS-PS4-2 CC: HS-PS4-5 DCI: 2-LS2-1 DCI: 2-LS2-2 DCI: 2-PS1-1 DCI: 3-PS2-3 DCI: 3-PS2-4 DCI: MS-ESS3-1 DCI: MS-ESS3-5 DCI: MS-LS1-4 DCI: MS-LS2-1 DCI: MS-PS1-4 DCI: MS-PS2-3 DCI: MS-PS3-2 DCI: MS-PS3-3 DCI: MS-PS3-4 DCI: MS-PS4-2 DCI: HS-ESS3-6 DCI: HS-LS2-7 DCI: HS-LS3-2 DCI: HS-LS3-3 DCI: HS-LS4-6 DCI: HS-PS3-1 DCI: HS-PS3-2 DCI: HS-PS4-1 DCI: HS-PS4-3
<b>decide</b>	SP: 3 SP: HS-ESS2-5 SP: HS-LS1-3 SP: HS-PS1-3 SP: HS-PS2-5 SP: HS-PS3-4	<b>delimit</b>	Marzano Research		
<b>defend</b>	HS-LS3-2 SP: 7 DCI: 3-LS2-1 SP: HS-ESS1-5 SP: HS-ESS2-7 SP: HS-ESS3-2 SP: HS-LS2-8 SP: HS-LS3-2 SP: HS-LS4-5 SP: HS-PS4-3	<b>demonstrate</b>	DCI: MS-LS2-3		

<b>describe</b>	K-ESS2-1	<b>describe</b>	HS-PS4-3	<b>describe</b>	DCI: HS-PS3-1
	K-LS1-1		CC: K-ESS2-1		SP: K-ESS2-1
	1-ESS1-1		CC: 1-ESS1-1		SP: K-ESS3-2
	2-PS1-1		CC: 1-ESS1-2		SP: K-LS1-1
	3-ESS2-1		CC: 1-LS1-2		SP: 1-ESS1-1
	3-ESS2-2		CC: 1-LS3-1		SP: 3-5-ETS1-2
	3-LS1-1		CC: 3-LS4-4		SP: 3-LS1-1
	4-ESS2-2		CC: 4-LS1-1		SP: 3-LS3-2
	4-ESS3-1		CC: 4-LS1-2		SP: 3-LS4-2
	4-LS1-2		CC: 5-ESS2-1		SP: 3-LS4-4
	4-PS4-1		CC: 5-ESS2-2		SP: 4-ESS1-1
	4-PS4-2		CC: 5-ESS3-1		SP: 4-ESS3-2
	5-ESS2-1		CC: 5-LS2-1		SP: 4-PS3-1
	5-ESS2-2		CC: 5-PS1-2		SP: 4-PS3-4
	5-LS2-1		CC: 5-PS1-3		SP: 4-PS4-1
	5-PS1-1		CC: MS-ESS3-4		SP: 4-PS4-3
	5-PS3-1		CC: MS-LS1-2		SP: 5-ESS2-1
	MS-ESS1-1		CC: MS-LS1-4		SP: 5-ESS2-2
	MS-ESS1-2		CC: MS-LS1-5		SP: 5-LS2-1
	MS-ESS2-1		CC: MS-LS2-5		SP: 5-PS1-1
	MS-ESS2-4		CC: MS-LS3-1		SP: 5-PS3-1
	MS-ESS2-6		CC: MS-LS4-4		SP: MS-ESS1-1
	MS-ESS3-4		CC: MS-LS4-5		SP: MS-ESS1-2
	MS-LS1-2		CC: MS-LS4-6		SP: MS-ESS1-4
	MS-LS1-7		CC: HS-ESS3-6		SP: MS-ESS2-1
	MS-LS2-3		CC: HS-LS1-5		SP: MS-ESS2-1
	MS-LS3-1		CC: HS-LS1-6		SP: MS-ESS2-2
	MS-LS3-2		CC: HS-PS1-4		SP: MS-ESS2-4
	MS-LS4-4		CC: HS-PS2-2		SP: MS-ESS2-6
	MS-PS1-1		CC: HS-PS3-3		SP: MS-ESS3-1
	MS-PS1-3		CC: HS-PS3-4		SP: MS-ESS3-3
	MS-PS1-4		DCI: K-ESS2-1		SP: MS-ETS1-4
	MS-PS1-5		DCI: 1-ESS1-1		SP: MS-LS1-2
	MS-PS3-1		DCI: 1-ESS1-2		SP: MS-LS1-5
	MS-PS3-2		DCI: 2-PS1-1		SP: MS-LS1-6
	MS-PS4-1		DCI: 3-ESS2-2		SP: MS-LS1-7
	MS-PS4-2		DCI: 3-PS2-2		SP: MS-LS1-8
	HS-ESS2-3		DCI: MS-ESS1-1		SP: MS-LS2-3
	HS-ESS2-4		DCI: MS-LS2-5		SP: MS-LS3-1
	HS-ESS2-6		DCI: MS-PS1-4		SP: MS-LS3-2
HS-LS2-4	DCI: MS-PS2-2	SP: MS-LS4-4			
HS-LS3-3	DCI: HS-ESS1-4	SP: MS-LS4-5			
HS-PS2-1	DCI: HS-PS1-2	SP: MS-PS1-1			
HS-PS2-4	DCI: HS-PS1-7	SP: MS-PS1-3			
HS-PS3-4	DCI: HS-PS2-4	SP: MS-PS1-4			

<b>describe (cont'd)</b>	SP: MS-PS1-5 SP: MS-PS3-2 SP: MS-PS4-1 SP: MS-PS4-2 SP: HS-ESS1-2 SP: HS-ESS1-4 SP: HS-ESS3-1 SP: HS-ESS3-6 SP: HS-LS1-1 SP: HS-LS1-6 SP: HS-LS2-3 SP: HS-LS4-2 SP: HS-LS4-4 SP: HS-PS2-2 SP: HS-PS2-4 SP: HS-PS4-1		SP: K-PS3-2 SP: 1-ESS1-2 SP: 1-LS1-1 SP: 1-LS3-1 SP: 1-PS4-2 SP: 1-PS4-4 SP: 2-ESS1-1 SP: 2-ESS2-1 SP: 2-PS1-1 SP: 2-PS1-3 SP: 3-5-ETS1-2 SP: 3-5-ETS1-3 SP: 3-LS1-1 SP: 3-LS3-2 SP: 3-LS4-2 SP: 3-PS2-1 SP: 4-ESS1-1 SP: 4-ESS3-2 SP: 4-PS3-1 SP: 4-PS3-4 SP: 4-PS4-1 SP: 4-PS4-2 SP: 4-PS4-3 SP: 5-ESS2-1 SP: 5-LS2-1 SP: 5-PS1-1 SP: 5-PS1-3 SP: 5-PS1-4 SP: 5-PS3-1 SP: MS-ESS1-1 SP: MS-ESS1-2 SP: MS-ESS1-4 SP: MS-ESS2-1 SP: MS-ESS2-2 SP: MS-ESS2-4 SP: MS-ESS2-5 SP: MS-ESS2-6 SP: MS-ESS3-1 SP: MS-ESS3-3 SP: MS-ETS1-4 SP: MS-LS1-2 SP: MS-LS1-3 SP: MS-LS1-4 SP: MS-LS1-5 SP: MS-LS1-6		SP: MS-LS1-7 SP: MS-LS2-2 SP: MS-LS2-3 SP: MS-LS2-5 SP: MS-LS3-1 SP: MS-LS3-2 SP: MS-LS4-2 SP: MS-LS4-4 SP: MS-LS4-6 SP: MS-PS1-6 SP: MS-PS2-1 SP: MS-PS2-2 SP: MS-PS2-5 SP: MS-PS3-2 SP: MS-PS3-3 SP: MS-PS3-4 SP: MS-PS3-5 SP: MS-PS4-1 SP: MS-PS4-2 SP: MS-PS4-3 SP: HS-ESS1-2 SP: HS-ESS1-6 SP: HS-ESS3-1 SP: HS-ESS3-4 SP: HE-ETS1-1 SP: HE-ETS1-2 SP: HE-ETS1-3 SP: HS-LS1-1 SP: HS-LS1-6 SP: HS-LS2-3 SP: HS-LS2-7 SP: HS-LS4-2 SP: HS-LS4-4 SP: HS-PS1-2 SP: HS-PS1-5 SP: HS-PS1-6 SP: HS-PS2-3 SP: HS-PS3-3 SP: HS-PS4-2 SP: HS-PS4-5
<b>design</b>	K-PS3-2 1-LS1-1 1-LS3-1 1-PS4-4 4-ESS3-2 4-PS3-4 MS-ESS3-3 MS-PS2-1 HS-ETS1-2 HS-LS2-7 HS-LS4-6 HS-PS2-3 HS-PS2-5 HS-PS3-3 SP: 1 CC: K-PS2-1 CC-K-PS2-2 CC: 1-PS4-1 CC: 1-PS4-2 CC: 1-PS4-3 CC: 2-PS1-2 CC: MS-PS1-3 CC: MS-PS4-2 CC: MS-PS4-3 CC: HS-PS2-3 CC: HS-PS2-6 DCI: K-2-ETS1-1 DCI: 3-5-ETS1-2 DCI: 3-5-ETS1-3	<b>design</b>		<b>design</b>	

<b>determine</b>	K-PS2-2	<b>determine</b>	SP: MS-ETS1-3	<b>develop</b>	HS-LS2-8
	K-PS3-1		SP: MS-LS4-1		HS-PS1-4
	1-LS1-2		SP: MS-PS1-2		HS-PS1-8
	1-PS4-3		SP: HS-ESS1-5		HS-PS3-2
	2-LS2-1		SP: HS-ESS2-2		HS-PS3-5
	2-PS1-2		SP: HS-LS2-6		CC: 2-ESS2-1
	3-PS2-3		SP: HS-LS2-8		CC: 3-ESS3-1
	5-PS1-4		SP: HS-LS3-3		CC: 3-PS2-4
	MS-ESS1-3		SP: HS-LS4-3		CC: 4-ESS3-2
	MS-ESS2-6		SP: HS-LS4-5		CC: 4-PS3-4
	MS-ETS1-2		SP: HS-PS2-1		DCI: 3-5-ETS1-2
	MS-ETS1-3		SP: HS-PS4-3		DCI: 3-LS3-2
	MS-PS1-2		K-2-ETS1-2		DCI: HS-ESS3-4
	MS-PS2-3		2-ESS2-2		DCI: HS-ETS1-3
	MS-PS3-4		2-LS2-2		DCI: HS-LS2-7
	HS-ESS2-3	3-LS1-1	DCI: HS-LS4-6		
	HS-LS1-1	4-PS4-1	SP: K-2-ETS1-2		
	HS-LS2-2	4-PS4-2	SP: K-ESS3-1		
	HS-LS4-5	5-ESS2-1	SP: 2-ESS2-2		
	HS-PS2-3	5-LS2-1	SP: 2-LS2-2		
	HS-PS2-6	5-PS1-1	SP: 4-PS4-1		
	SP: 1	MS-ESS1-1	SP: 4-PS4-2		
	SP: 4	MS-ESS1-2	SP: 5-ESS2-1		
	CC: MS-LS1-2	MS-ESS2-1	SP: 5-PS1-4		
	CC: MS-LS3-1	MS-ESS2-4	SP: MS-ESS1-1		
	DCI: 3-5-ETS1-1	MS-ESS2-6	SP: MS-ESS1-2		
	DCI: 3-5-ETS1-3	MS-ETS1-4	SP: MS-ESS2-1		
	DCI: 4-PS3-4	MS-LS1-1	SP: MS-ESS2-4		
	DCI: 4-PS4-3	MS-LS1-2	SP: MS-ESS2-6		
	DCI: 5-ESS2-1	MS-LS1-7	SP: MS-ETS1-4		
	DCI: MS-ESS2-2	MS-LS2-3	SP: MS-LS1-2		
	DCI: MS-ESS2-5	MS-LS3-1	SP: MS-LS1-7		
	DCI: MS-LS4-5	MS-LS3-2	SP: MS-LS2-3		
DCI: MS-PS2-2	MS-PS1-1	SP: MS-LS3-1			
DCI: HS-ESS1-5	MS-PS1-4	SP: MS-LS3-2			
DCI: HS-ESS1-6	MS-PS1-5	SP: MS-PS1-1			
DCI: HS-PS1-3	MS-PS3-2	SP: MS-PS1-4			
DCI: HS-PS1-6	MS-PS4-2	SP: MS-PS1-5			
DCI: HS-PS2-6	HS-ESS1-1	SP: MS-PS3-2			
SP: K-2-ETS1-3	HS-ESS2-1	SP: MS-PS4-2			
SP: K-PS2-2	HS-ESS2-3	SP: HS-ESS1-1			
SP: 1-LS1-2	HS-ESS2-6	SP: HS-ESS2-1			
SP: 2-PS1-2	HS-ESS3-2	SP: HS-ESS2-3			
SP: MS-ESS1-3	HS-LS1-2	SP: HS-ESS2-4			
SP: MS-ESS3-2	HS-LS2-5	SP: HS-ESS2-6			

<b>develop (cont'd)</b>	SP: HS-LS1-2 SP: HS-LS1-4 SP: HS-LS1-5 SP: HS-LS1-7 SP: HS-LS2-5 SP: HS-PS1-1 SP: HS-PS1-4 SP: HS-PS1-8 SP: HS-PS3-2 SP: HS-PS3-5	<b>distribute</b>	DCI: MS-ESS2-6 DCI: MS-ESS3-1	<b>engineer</b>	CC: 3-5-ETS1-2 CC: 3-ESS3-1 CC: 4-ESS3-2 CC: 4-PS3-4 CC: MS-LS1-3 CC: HS-ESS1-2 CC: HS-ESS1-4 CC: HS-ESS2-3 CC: HS-ESS3-2 CC: HS-ESS3-4 CC: HS-PS3-3 CC: HS-PS4-2 DCI: K-2-ETS1-1 DCI: MS-ESS3-3 DCI: MS-ESS3-4 SP		
	<b>differentiate</b>		CC: HS-ESS2-4 CC: HS-ESS3-1 CC: HS-LS2-8 CC: HS-LS3-1 CC: HS-LS3-2 CC: HS-LS4-2 CC: HS-LS4-4 CC: HS-LS4-5 CC: HS-LS4-6 CC: HS-PS2-1 CC: HS-PS2-5 CC: HS-PS4-1		<b>engage</b>	SP: 8 DCI: 1-LS1-2 DCI: MS-LS1-4 SP: K-ESS2-2 SP: 2-PS1-4 SP: 3-ESS3-1 SP: 3-LS2-1 SP: 3-LS4-3 SP: 3-LS4-4 SP: 4-LS1-1 SP: 5-ESS1-1 SP: 5-LS1-1 SP: 5-PS2-1 SP: MS-ESS3-4 SP: MS-ETS1-2 SP: MS-LS1-3 SP: MS-LS1-4 SP: MS-LS2-4 SP: MS-LS2-5 SP: MS-PS1-6 SP: MS-PS2-4 SP: MS-PS3-5 SP: HS-ESS1-5 SP: HS-ESS2-7 SP: HS-ESS3-2 SP: HS-LS2-6 SP: HS-LS2-8 SP: HS-LS3-2 SP: HS-LS4-5 SP: HS-PS4-3	<b>enhance</b>
<b>disassemble</b>		2-PS1-3	<b>evaluate</b>			MS-ESS3-3 MS-ETS1-2 MS-LS2-4 MS-LS2-5 MS-PS2-5 HS-ESS1-5 HS-ESS3-2 HS-ESS3-4 HS-ETS1-3 HS-LS2-6 HS-LS2-7 HS-LS2-8 HS-LS4-5 HS-PS2-3 HS-PS4-2 HS-PS4-3 HS-PS4-4 SP: 6 SP: 7 SP: 8 CC: HS-ESS2-3 DCI: MS-ETS1-2 DCI: MS-ETS1-3 DCI: MS-LS2-5 DCI: MS-PS3-3 DCI: HS-ESS3-2 DCI: HS-ESS3-4	
<b>display</b>		3-ESS2-1 5-ESS1-2 MS-LS4-3 MS-PS2-4 MS-PS3-1 SP: 3-ESS2-1 SP: 5-ESS1-2 SP: MS-LS4-3 SP: MS-PS3-1 SP: MS-PS4-3				<b>distinguish</b>	MS-LS1-1 HS-LS2-8 SP: MS-ESS1-3 SP: MS-ESS2-3 SP: MS-ESS3-2 SP: MS-ETS1-3 SP: MS-LS2-1 SP: MS-LS4-1 SP: MS-LS4-3 SP: MS-PS1-2 SP: MS-PS3-1

<b>evaluate (cont'd)</b>	DCI: HS-ETS1-3
	DCI: HS-LS2-7
	DCI: HS-LS4-6
	SP: K-ESS3-2
	SP: K-ESS3-3
	SP: 1-LS1-2
	SP: 2-ESS2-3
	SP: 3-ESS2-2
	SP: 4-ESS3-1
	SP: 5-ESS3-1
	SP: MS-ETS1-2
	SP: MS-LS1-8
	SP: MS-LS2-4
	SP: MS-LS2-5
	SP: MS-LS4-5
	SP: MS-PS1-3
	SP: MS-PS2-5
	SP: MS-PS4-3
	SP: HS-ESS1-3
	SP: HS-ESS1-5
	SP: HS-ESS3-2
	SP: HS-ESS2-3
	SP: HS-ETS1-1
	SP: HS-ETS1-3
	SP: HS-LS2-6
	SP: HS-LS2-7
	SP: HS-LS2-8
	SP: HS-LS3-1
	SP: HS-LS4-1
	SP: HS-LS4-5
	SP: HS-PS2-6
	SP: HS-PS3-3
	SP: HS-PS4-2
SP: HS-PS4-3	
SP: HS-PS4-4	
SP: HS-PS4-5	
<b>examine</b>	MS-ESS3-3
	HS-ESS2-5
	CC: MS-ESS2-1
	CC: MS-PS2-2
	CC: HS-ESS1-4
	CC: HS-LS3-3
	CC: HS-PS3-5
	CC: HS-PS4-4
	SP: HS-LS3-1

<b>expand</b>	5-PS1-1
	HS-ESS1-2
<b>explain</b>	DCI: HS-ESS2-5
	HS-ESS1-5
	HS-LS3-3
	HS-LS4-2
	HS-PS3-1
	SP
	CC: 3-ESS3-1
	CC: 3-LS2-1
	CC: 3-LS3-2
	CC: 3-LS4-2
	CC: 3-LS4-2
	CC: 3-PS2-3
	CC: 4-ESS2-1
	CC: 4-ESS3-1
	CC: 4-ESS3-2
	CC: 5-LS2-1
	CC: 5-PS1-4
	CC: 5-PS2-1
	CC: MS-PS1-5
	CC: HS-ESS1-2
	CC: HS-ESS1-6
	CC: HS-LS4-1
	CC: HS-PS2-1
	CC: HS-PS2-4(a)
	CC: HS-PS2-4(b)
	CC: HS-PS4-3
	DCI: 5-PS1-1
	DCI: MS-ESS1-1
	DCI: MS-PS2-5
	DCI: MS-PS4-2
	DCI: HS-ESS1-5
	DCI: HS-ESS2-1
	DCI: HS-PS1-1
DCI: HS-PS1-3	
DIC: HS-PS2-6	
DCI: HS-PS4-3	
SP: 2-PS1-4	
SP: 3-ESS2-2	
SP: 3-LS4-3	
SP: 4-ESS3-1	
SP: 5-ESS3-1	

<b>extend</b>	MS-PS1-1
	SP: 8
	CC: MS-PS4-3
	DCI: MS-PS1-1
	DCI: MS-PS2-5
	SP: 5-ESS2-2
	SP: 5-PS1-2
	SP: MS-ESS1-3
	SP: MS-ESS2-3
	SP: MS-ESS3-2
SP: MS-ETS1-3	
SP: MS-LS2-1	
SP: MS-LS4-1	
SP: MS-LS4-3	
SP: MS-PS1-2	
SP: MS-PS3-1	
SP	
<b>formulate</b>	SP: 1
	SP: 7
	SP: HS-ETS1-1
<b>frame</b>	SP: HS-LS3-1
	SP: HS-PS4-2
<b>gather</b>	SP: MS-PS2-3
	K-2-ETS1-1
	MS-LS1-8
	MS-LS4-5
	MS-PS1-3
	HS-LS2-1
	HS-PS1-3
	CC: K-PS2-1
	CC: K-PS2-2
	CC: 1-PS4-1
	CC: 1-PS4-2
	CC: 1-PS4-3
	CC: 2-PS1-2
	DCI: K-ESS3-2
	DCI: K-2-ETS1-1
SP: MS-LS1-8	
SP: MS-LS4-5	
SP: MS-PS1-3	
SP: MS-PS2-2	
SP: MS-PS3-4	

<b>generate</b>	3-5-ETS1-2	<b>identify</b>	CC: 3-LS3-2	<b>illustrate</b>	K-2-ETS1-2
	4-ESS3-2		CC: 3-LS4-2		4-PS4-1
	4-PS4-3		CC: 3-LS4-3		HS-ESS1-1
	MS-ETS1-4		CC: 3-PS2-1		HS-ESS2-1
	MS-PS2-4		CC: 3-PS2-3		HS-ESS3-3
	CC: K-ESS3-2		CC: 4-ESS2-1		HS-ESS3-6
	CC: K-ESS3-3		CC: 4-ESS3-1		HS-LS1-2
	CC: K-PS3-1		CC: 4-ESS3-2		HS-LS1-4
	CC: K-PS3-2		CC: 4-PS4-2		HS-LS1-5
	CC: 2-LS2-1		CC: 5-PS1-4		HS-LS1-7
CC: 2-PS1-4	CC: 5-PS2-1	HS-LS2-5			
DCI: MS-ESS2-3	CC: MS-ESS1-1	HS-PS1-4			
DCI: HS-ESS2-3	CC: MS-ESS3-2	HS-PS1-8			
SP: 3-5-ETS1-2	CC: MS-LS2-2	HS-PS3-2			
SP: 4-ESS3-2	CC: MS-LS4-1	HS-PS3-5			
SP: 4-PS4-3	CC: MS-LS4-2	SP: HS-ESS1-1			
SP: MS-ETS1-4	CC: MS-LS4-3	SP: HS-ESS2-1			
SP: HS-ESS2-2	CC: MS-PS4-1	SP: HS-ESS2-3			
SP: HS-ESS3-5	CC: HS-ESS1-5	SP: HS-ESS2-6			
SP: HS-LS3-3	DCI: 3-5-ETS1-3	SP: HS-LS1-2			
SP: HS-LS4-3	DCI: 5-PS1-3	SP: HS-LS1-4			
SP: HS-PS2-1	DCI: MS-ETS1-3	SP: HS-LS1-5			
SP: HS-PS2-3	DCI: MS-PS1-2	SP: HS-LS1-7			
	DCI: MS-PS1-3	SP: HS-LS2-5			
	DCI: MS-PS1-6	SP: HS-PS1-4			
	DCI: HS-ESS1-2	SP: HS-PS1-8			
	DCI: HS-ESS1-3	SP: HS-PS3-2			
	SP: 4-ESS1-1	SP: HS-PS3-5			
	SP: MS-ESS3-5				
	SP: MS-LS4-1	<b>impact</b>	MS-ESS3-4		
	SP: MS-LS4-3		MS-PS1-3		
	SP: MS-LS4-6	<b>implement</b>	SP: MS-PS1-6		
	SP: MS-PS2-2	<b>improve</b>	3-5-ETS1-3		
	SP: MS-PS3-1		4-ESS3-2		
	SP: MS-PS3-4		HS-PS2-3		
	SP: MS-PS4-1		SP: 5		
			SP: 8		
			CC: 3-5-ETS1-2		
			CC: 3-ESS3-1		
			CC: 4-ESS3-2		
			CC: 4-PS3-4		
			DCI: 3-5-ETS1-3		
		DCI: MS-ETS1-4			
		DCI: MS-PS1-6			
		DCI: MS-PS3-3			
<b>graph</b>	BBK				
	5-ESS2-2				
	5-PS1-2				
	SP: 5-ESS2-2				
	SP: 5-PS1-2				
<b>guide</b>	CC: MS-LS1-3				
	CC: MS-LS1-3				
	DCI: 4-LS1-2				
	DCI: HS-ESS3-1				
<b>identify</b>	2-ESS2-3				
	3-5-ETS1-3				
	4-ESS1-1				
	5-PS1-3				
	MS-ETS1-3				
	MS-LS1-2				
	MS-LS4-3				
	HS-LS2-8				
	SP: 3				
	SP: 4				
	SP: 7				
	CC: 3-ESS3-1				
	CC: 3-LS2-1				



<b>include</b>	K-ESS2-1	<b>include</b>	4-PS4-3	<b>include</b>	HS-ESS2-6
	K-ESS2-2		5-ESS1-2		HS-ESS2-7
	K-ESS3-1		5-ESS2-1		HS-ESS3-1
	K-ESS3-3		5-ESS2-2		HS-ESS3-2
	K-LS1-2		5-LS2-1		HS-ESS3-3
	K-PS2-1		5-PS1-1		HS-ESS3-4
	K-PS2-2		5-PS1-2		HS-ETS1-3
	K-PS3-1		5-PS1-3		HS-LS1-3
	K-PS3-2		5-PS3-1		HS-LS1-5
	1-ESS1-1		MS-ESS1-3		HS-LS2-1
	1-LS1-1		MS-ESS1-4		HS-LS2-2
	1-LS1-2		MS-ESS2-2		HS-LS2-5
	1-LS3-1		MS-ESS2-3		HS-LS2-6
	1-PS4-1		MS-ESS3-1		HS-LS2-7
	1-PS4-2		MS-ESS3-2		HS-LS2-8
	1-PS4-4		MS-ESS3-3		HS-LS4-1
	2-ESS1-1		MS-ESS3-4		HS-LS4-2
	2-ESS2-1		MS-ESS3-5		HS-PS1-1
	2-ESS2-2		MS-LS1-3		HS-PS1-2
	2-PS1-1		MS-LS1-4		HS-PS1-3
	2-PS1-2		MS-LS1-5		HS-PS1-4
	2-PS1-3		MS-LS2-2		HS-PS1-6
	2-PS1-4		MS-LS2-5		HS-PS2-1
	3-5-ETS1-1		MS-PS1-1		HS-PS2-3
	3-ESS2-1		MS-PS1-2		HS-PS2-6
	3-ESS3-1		MS-PS1-3		HS-PS3-2
	3-LS3-2		MS-PS1-4		HS-PS3-3
	3-LS4-1		MS-PS1-5		HS-PS3-4
	3-LS4-3		MS-PS2-3		HS-PS3-5
	3-LS4-4		MS-PS2-4		HS-PS4-1
	3-PS2-1		MS-PS2-5		HS-PS4-2
	3-PS2-2		MS-PS3-1		HS-PS4-3
	3-PS2-3		MS-PS3-2		HS-PS4-4
	3-PS2-4		MS-PS3-3		HS-PS4-5
	4-ESS1-1		MS-PS3-4		CC: MS-ESS2-1
	4-ESS2-1		MS-PS3-5		CC: HS-ESS2-2
	4-ESS2-2		MS-PS4-1		CC: HS-ESS3-3
	4-ESS3-1		MS-PS4-2		CC: HS-ETS1-1
	4-ESS3-2		MS-PS4-3		CC: HS-ETS1-3
	4-LS1-1		HS-ESS1-1		CC: HS-ETS1-4
	4-LS1-2		HS-ESS1-5		CC: HS-LS1-2
	4-PS3-1		HS-ESS1-6		CC: HS-LS1-2
	4-PS3-4		HS-ESS2-2		CC: HS-LS1-4
	4-PS4-1		HS-ESS2-3		CC: HS-LS2-5
	4-PS4-2		HS-ESS2-5		CC: HS-LS2-7

<b>include</b> <b>(cont'd)</b>	CC: HS-PS4-3	<b>include</b>	SP: MS-LS4-2	<b>indicate</b>	4-ESS1-1
	DCI: 5-ESS1-2		SP: MS-LS4-4		HS-ESS3-2
	DCI: 5-ESS2-1		SP: MS-PS1-6		CC: HS-ESS3-2
	DCI: 5-PS1-1		SP: MS-PS2-1		DCI: 4-ESS1-1
	DCI: MS-ESS1-2		SP: MS-PS2-2		SP: 3-ESS2-1
	DCI: MS-ESS1-3		SP: MS-PS2-5	SP: 5-ESS1-2	
	DCI: MS-ETS1-1		SP: MS-PS3-1	<b>infer</b>	MS-LS4-2
	DCI: MS-LS1-6		SP: MS-PS3-3		MS-LS4-3
	DCI: MS-PS3-3		SP: MS-PS3-4		HS-PS1-3
	DCI: HS-ESS1-1		SP: HS-ESS1-1		CC: HS-ESS2-5
	DCI: HS-ESS1-2		SP: HS-ESS1-2		DCI: HS-LS4-1
	DCI: HS-ESS1-4		SP: HS-ESS1-3	<b>influence</b>	3-LS3-2
	DCI: HS-ESS2-5		SP: HS-ESS1-6		MS-LS1-5
	DCI: HS-ESS3-2		SP: HS-ESS2-3		MS-LS4-5
	DCI: HS-ESS3-4		SP: HS-ESS2-5		HS-ESS3-1
	DCI: HS-ETS1-1		SP: HS-ESS3-1		CC: MS-PS4-3
	DCI: HS-ETS1-3		SP: HS-ESS3-3		CC: HS-LS3-3
	DCI: HS-LS2-3		SP: HS-ESS3-4		DCI: 5-ESS2-1
	DCI: HS-LS4-6		SP: HS-ESS3-6		DCI: MS-ESS2-6
	DCI: HS-PS1-8		SP: HS-ETS1-4		DCI: MS-LS2-5
DCI: HS-PS2-3	SP: HS-LS1-1	DCI: MS-LS4-5			
DCI: HS-PS3-2	SP: HS-LS1-3	<b>integrate</b>	MS-PS4-3		
DCI: HS-PS3-3	SP: HS-LS1-6		SP: 8		
SP: K-2-ETS1-2	SP: HS-LS2-1		SP: MS-PS4-3		
SP: K-ESS3-1	SP: HS-LS2-2	<b>intend</b>	K-PS2-2		
SP: 2-ESS2-2	SP: HS-LS2-3		2-PS1-2		
SP: 2-LS2-2	SP: HS-LS2-4		5-PS1-3		
SP: 3-5-ETS1-1	SP: HS-LS3-3		SP: K-2-ETS1-3		
SP: 3-PS2-1	SP: HS-LS4-1		SP: K-PS2-2		
SP: 3-PS2-2	SP: HS-LS4-2		SP: 2-PS1-2		
SP: 4-ESS2-1	SP: HS-LS4-3				
SP: 4-PS3-2	SP: HS-LS4-4				
SP: 5-PS1-3	SP: HS-LS4-6				
SP: 5-PS1-4	SP: HS-PS1-2				
SP: MS-ESS1-4	SP: HS-PS1-3				
SP: MS-ESS2-2	SP: HS-PS1-7				
SP: MS-ESS2-5	SP: HS-PS2-2				
SP: MS-ESS3-1	SP: HS-PS2-4				
SP: MS-ESS3-3	SP: HS-PS2-5				
SP: MS-ETS1-1	SP: HS-PS2-6				
SP: MS-ETS1-4	SP: HS-PS4-1				
SP: MS-LS1-1	SP: HS-PS4-5				
SP: MS-LS1-5					
SP: MS-LS1-6					
SP: MS-LS2-2					
	<b>incorporate</b>	SP: 6			
		DCI: MS-ETS1-3			
		DCI: MS-PS1-6			

<b>interact</b>	4-PS3-3 5-ESS2-1 MS-PS1-2 HS-LS1-2 HS-PSW-6 HS-PS3-5 CC: MS-LS1-3 DCI: 5-ESS2-1 DCI: MS-LS2-3 DCI: MS-PS3-2 DCI: HS-ESS2-2 DCI: HS-ESS3-6 DCI: HS-LS1-7 DCI: HS-PS2-2 DCI: HS-PS2-3 DCI: HS-PS3-5	<b>introduce</b>	DCI: 5-LS2-1 SP: 3-ESS2-1 SP: 3-LS3-1 SP: 3-LS4-1 SP: 3-PS2-2 SP: 4-ESS2-2 SP: 5-ESS1-2 SP: HS-ESS2-2 SP: HS-ESS3-5 SP: HS-LS3-3 SP: HS-LS4-3 SP: HS-PS2-1	<b>lead</b>	MS-LS4-5 MS-LS4-6 HS-LS4-4 CC: 3-PS2-4 DCI: 3-5-ETS1-2 DCI: MS-ETS1-4 DCI: MS-LS2-4 DCI: MS-LS4-4 DCI: MS-PS1-6 DCI: HS-ESS2-3 DCI: HS-LS4-2 DCI: HS-LS4-3 DCI: HS-LS4-4
	<b>interpret</b>		3-LS3-1 3-LS4-1 4-ESS2-2 MS-ESS1-3 MS-ESS2-3 MS-ESS3-2 MS-LS2-1 MS-LS4-1 MS-PS1-2 MS-PS3-1 SP: 4 DCI: MS-ESS1-4 DCI: HS-PS4-5 SP: 3-LS3-1 SP: 3-LS4-1 SP: 4-ESS2-2 SP: MS-ESS1-3 SP: MS-ESS2-3 SP: MS-ESS3-2 SP: MS-ETS1-3 SP: MS-LS2-1 SP: MS-LS4-1 SP: MS-PS1-2 SP: MS-PS3-1 SP		<b>investigate</b>
			<b>involve</b>	3-LS4-3 MS-PS1-6 MS-PS2-1 CC: HS-ESS1-2 CC: HS-ESS1-4 CC: HS-ESS2-3 CC: HS-ESS3-2 DCI: 3-5-ETS1-2 DCI: 3-LS3-2 DCI: 4-ESS3-2 DCI: MS-ESS2-6 DCI: MS-ESS3-3 DCI: MS-ESS3-4 DCI: MS-LS1-7 DCI: MS-LS2-2 DCI: HS-ESS2-3 DCI: MS-PS2-3 DCI: HS-LS3-1 DCI: HS-PS1-2 DCI: HS-PS1-7 DCI: HS-PS1-8	<b>limit</b>
				<b>link</b>	DCI: HS-LS2-4 SP: HS-ESS1-6
				<b>locate</b>	MS-LS3-1 DCI: 2-ESS2-2 DCI: 4-ESS2-2 DCI: MS-LS3-1

<b>maintain</b>	5-PS3-1 MS-LS2-5 HS-LS1-3 HS-LS1-4 HS-LS2-6 DCI: 5-PS3-1 DCI: HS-LS1-3 DCI: HS-LS1-4 DCI: HS-LS1-7 DCI: HS-LS2-7 DCI: HS-LS4-6	<b>modify</b>	MS-PS1-6 HS-ESS3-6 HS-PS2-3 HS-PS4-3 CC: HS-ESS3-2 CC: HS-ESS3-4 CC: HS-LS4-1 CC: HS-PS3-3 CC: HS-PS4-2 DCI: MS-ETS1-4 DCI: MS-PS1-6 DCI: MS-PS3-3 DCI: HS-ESS3-6 SP: HS-ESS1-2 SP: HS-ESS1-6 SP: HS-LS4-1 SP: HS-PS4-3	<b>observe</b>	CC: K-ESS2-1 CC: K-LS1-1 CC: 1-ESS1-1 CC: 1-ESS1-2 CC: 1-LS1-2 CC: 1-LS3-1 CC: 2-ESS2-2 CC: 2-ESS2-3 CC: 2-PS1-1 CC: MS-ESS1-3 CC: MS-ESS1-4 CC: MS-ESS2-2 CC: MS-LS1-1 CC: MS-PS1-1 CC: HS-LS4-1 CC: HS-LS4-3 CC: HS-PS1-1 CC: HS-PS1-2 CC: HS-PS1-3 CC: HS-PS1-5 CC: HS-PS2-4(a) CC: HS-PS2-4(b) DCI: 1-ESS1-1 DCI: 1-ESS1-2 DCI: 2-ESS1-1 DCI: 2-PS1-4 DCI: 3-PS2-2 DCI: MS-ESS1-1
<b>manage</b>	HS-ESS3-2 DCI: HS-ESS3-5	<b>monitor</b>	4-ESS3-2 MS-ESS3-2 MS-ESS3-3		
<b>manipulate</b>	3-PS2-3				
<b>map</b>	DCI: 2-ESS2-2 DCI: MS-ESS3-2 DCI: MS-PS2-5				
<b>maximize</b>	MS-PS3-3				
<b>measure</b>	5-PS1-2 MS-PS3-4 SP: 3 CC: 5-ESS2-2 CC: 5-PS1-2 CC: 5-PS1-3 DCI: K-ESS2-1 DCI: 3-PS2-2 DCI: HS-ESS1-2 SP: 5-PS1-2				
<b>mitigate</b>	MS-ESS3-2 HS-LS4-6				
<b>mix</b>	5-PS1-2 5-PS1-4 MS-PS1-2 HS-PS3-4 DCI: 5-PS1-4 DCI: HS-PS4-3				
<b>model</b>	HS-ESS2-6 HS-ETS1-4 SP: HS-ESS3-5				

<b>obtain</b>	K-ESS3-2	<b>optimize</b>	DCI: K-2-ETS1-3	<b>plan</b>	K-PS2-1
	2-ESS2-3		DCI: 2-ESS2-1		1-PS4-1
	2-PS1-2		DCI: 3-5-ETS1-3		1-PS4-3
	3-ESS2-2		DCI: 4-PS4-3		2-LS2-1
	4-ESS3-1		DCI: MS-ETS1-3		2-PS1-1
	5-ESS3-1		DCI: MS-ETS1-4		3-5-ETS1-3
	MS-ESS2-5		DCI: MS-PS1-6		3-PS2-1
	HS-ESS1-6		DCI: HS-ETS1-2		MS-PS2-2
	HS-ESS2-3		DCI: HS-PS1-6		MS-PS3-4
	CC: MS-LS2-4		DCI: HS-PS2-3		HS-ESS2-5
	CC: HS-ESS3-5		MS-ESS1-4		HS-LS1-3
	DCI: K-LS1-1		DCI: MS-ESS1-4		HS-PS1-3
	DCI: 3-LS2-1				HS-PS2-5
	DCI: 5-LS2-1				HS-PS3-4
	SP: K-ESS3-3				SP: 3
	SP: 1-LS1-2				SP: K-PS2-1
	SP: 2-ESS2-3		SP: K-PS3-1		
	SP: 3-ESS2-2		SP: 1-ESS1-2		
	SP: 4-ESS3-1		SP: 1-PS4-1		
	SP: 5-ESS3-1		SP: 1-PS4-3		
	SP: MS-ESS1-4		SP: 2-LS2-1		
	SP: MS-ESS2-2		SP: 2-LS4-1		
	SP: MS-ESS3-1		SP: 2-PS1-1		
	SP: MS-LS1-5		SP: 3-5-ETS1-3		
	SP: MS-LS1-6		SP: 3-PS2-1		
	SP: MS-LS1-8		SP: 4-ESS2-1		
	SP: MS-LS2-4		SP: 4-PS3-2		
	SP: MS-LS4-5		SP: 5-PS1-3		
	SP: MS-PS1-3		SP: 5-PS1-4		
	SP: MS-PS4-3		SP: MS-ESS2-5		
	SP: HS-ESS1-2		SP: MS-LS1-1		
	SP: HS-ESS1-3		SP: MS-PS2-2		
	SP: HS-ESS1-6		SP: MS-PS3-4		
	SP: HS-ESS3-1		SP: HS-ESS2-5		
	SP: HS-ESS3-5		SP: HS-LS1-3		
	SP: HS-LS1-1		SP: HS-PS1-3		
	SP: HS-LS1-6		SP: HS-PS2-5		
	SP: HS-LS2-3		SP: HS-PS3-4		
	SP: HS-LS4-1				
	SP: HS-LS4-2		<b>predict</b>		
SP: HS-LS4-4		1-ESS1-1			
SP: HS-PS1-2		3-PS2-2			
SP: HS-PS2-6		4-PS3-3			
SP: HS-PS4-4		MS-ESS2-5			
SP: HS-PS4-5		MS-LS2-2			
		MS-PS1-4			
		HS-ESS1-2			

<b>predict</b> <b>(cont'd)</b>	HS-ESS1-4	<b>predict</b>	SP: MS-ETS1-4	<b>prioritize</b>	HS-ETS1-3
	HS-PS1-1		SP: MS-LS1-2		SP: HS-ESS3-4
	HS-PS2-4		SP: MS-LS1-7		SP: HS-ETS1-2
	HS-PS2-4		SP: MS-LS2-2		SP: HS-ETS1-3
	CC: MS-ESS2-5		SP: MS-LS2-3		SP: HS-LS2-7
	CC: MS-ESS3-1		SP: MS-LS3-1		SP: HS-PS1-6
	CC: MS-ESS3-4		SP: MS-LS3-2		SP: HS-PS3-3
	CC: MS-LS1-8		SP: MS-PS1-1		
	CC: MS-LS2-1		SP: MS-PS1-4		
	CC: MS-LS3-2		SP: MS-PS1-5		
	CC: MS-PS1-4		SP: MS-PS3-2		
	CC: MS-PS2-3		SP: MS-PS4-2		
	CC: MS-PS2-5		SP: HS-ESS1-1		
	CC: HS-ESS1-4		SP: HS-ESS2-1		
	CC: HS-LS3-3		SP: HS-ESS2-3		
	CC: HS-PS3-1		SP: HS-ESS2-4		
	CC: HS-PS3-5		SP: HS-ESS2-6		
	CC: HS-PS4-4		SP: HS-ETS1-4		
	DCI: 1-ESS1-1		SP: HS-LS1-2		
	DCI: 1-ESS1-2		SP: HS-LS1-4		
	DCI: 3-PS2-2		SP: HS-LS1-5		
	DCI: MS-ESS1-1		SP: HS-LS1-7		
	DCI: MS-ESS2-5		SP: HS-LS2-5		
	DCI: MS-PS1-4		SP: HS-PS1-1		
	DCI: HS-ESS3-5		SP: HS-PS1-4		
	DCI: HS-ESS3-6		SP: HS-PS1-8		
	DCI: HS-PS1-2		SP: HS-PS3-2		
	DCI: HS-PS1-7		SP: HS-PS3-5		
	DCI: HS-PS2-1				
	DCI: HS-PS2-4		<b>prepare</b>		K-ESS3-2
	DCI: HS-PS3-1				DCI: K-ESS3-2
	SP: 3-5-ETS1-2		<b>prescribe</b>		CC: MS-ESS3-4
	SP: 3-LS3-2				CC: MS-LS2-5
	SP: 3-LS4-2				CC: MS-LS4-5
SP: 4-ESS1-1	<b>present</b>	MS-PS2-4			
SP: 4-ESS3-2		MS-PS3-5			
SP: 4-PS3-1		DCI: 4-PS3-2			
SP: 4-PS3-3		DCI: MS-PS3-3			
SP: 4-PS3-4		DCI: MS-PS3-4			
SP: 4-PS4-3		DCI: HS-PS1-6			
SP: MS-ESS1-1		SP: MS-PS2-4			
SP: MS-ESS1-2		SP: MS-PS3-5			
SP: MS-ESS2-1	<b>prevent</b>	2-ESS2-1			
SP: MS-ESS2-4		3-ESS3-1			
SP: MS-ESS2-6		MS-LS2-5			

<b>produce</b>	K-ESS3-3	<b>propose</b>	MS-ETS1-4	<b>provide</b>	HS-ESS2-5
	3-PS2-1		HS-ETS1-4		HS-ESS2-6
	HS-ESS1-3		HS-LS4-6		HS-LS1-2
	HS-LS1-4		SP: 6		HS-LS1-3
	HS-PS1-6		DCI: 3-5-ETS1-2		HS-LS4-4
	HS-PS2-5		DCI: MS-ETS1-4		HS-PS1-5
	SP: 8		DCI: MS-PS1-6		HS-PS2-5
	DCI: 4-PS3-2		SP: K-2-ETS1-2		HS-PS3-4
	DCI: 4-PS3-3		SP: 2-LS2-2		CC: MS-ESS2-3
	DCI: 4-PS3-4		SP: 3-ESS3-1		CC: MS-PS3-1
	DCI: MS-ESS2-1		SP: 3-LS2-1		CC: MS-PS3-4
	DCI: MS-LS1-6		SP: 3-LS4-3		CC: HS-ESS3-2
	DCI: HS-ESS1-2		SP: 3-LS4-4		CC: HS-LS4-1
	DCI: HS-ESS1-3		SP: 4-LS1-1		CC: HS-LS4-3
	DCI: HS-ESS2-5		SP: 5-ESS1-1		CC: HS-PS1-2
	DCI: HS-ESS3-2		SP: 5-LS1-1		CC: HS-PS1-3
	DCI: HS-ESS3-4	SP: 5-PS2-1	CC: HS-PS1-5		
	DCI: HS-LS2-4	SP: HS-ESS1-3	CC: HS-PS2-1		
	DCI: HS-LS2-1	SP: HS-LS4-1	CC: HS-PS2-4(a)		
	DCI: HS-LS2-2	SP: HS-PS2-6	CC: HS-PS2-4(b)		
	DCI: HS-LS2-4	SP: HS-PS4-5	DCI: 3-LS4-1		
	DCI: HS-LS4-1	1-LS1-1	DCI: 3-LS4-2		
	DCI: HS-PS4-5	1-LS1-2	DCI: 5-PS3-1		
	SP: 1-PS4-1	5-ESS3-1	DCI: MS-PS1-6		
	SP: 1-PS4-3	MS-LS1-4	DCI: MS-ESS1-4		
	SP: 2-LS2-1	HS-PS2-3	DCI: MS-ETS1-3		
	SP: 2-PS1-1	DCI: 1-LS1-1	DCI: HS-ESS1-5		
	SP: 3-5-ETS1-3	DCI: 5-ESS3-1	DCI: HS-ESS1-6		
	SP: 3-PS2-2	1-PS4-1	DCI: HS-ESS2-1		
	SP: 3-PS2-3	2-ESS1-1	DCI: HS-ESS2-3		
	SP: 4-ESS2-1	3-LS3-1	DCI: HS-LS2-3		
	SP: 4-PS3-2	3-LS4-1	DCI: HS-LS2-7		
SP: 5-PS1-3	3-LS4-2	DCI: HS-LS4-1			
SP: 5-PS1-4	3-PS2-1	DCI: HS-LS4-6			
SP: MS-ESS2-5	3-PS2-2	DCI: HS-PS1-4			
SP: MS-LS1-1	4-ESS2-1	DCI: HS-PS2-4			
SP: MS-PS2-5	4-PS3-2	SP: K-ESS3-3			
SP: HS-LS1-3	5-ESS2-2	SP: K-PS2-1			
SP: HS-PS1-3	5-PS1-2	SP: K-PS3-1			
SP: HS-PS2-5	MS-ESS2-3	SP: K-PS3-2			
SP: HS-PS3-4	MS-ESS2-5	SP: 1-ESS1-2			
	MS-LS1-1	SP: 1-PS4-1			
	MS-LS2-1	SP: 1-PS4-3			
	MS-PS2-2	SP: 1-PS4-4			
	MS-PS2-5	SP: 2-LS2-1			

<b>provide (cont'd)</b>	SP: 2-LS4-1	<b>reduce</b>	K-ESS3-3	<b>refute</b>	CC: K-PS2-1
	SP: 2-PS1-1		K-PS3-2		CC: K-PS2-2
	SP: 3-5-ETS1-3		3-ESS3-1		CC: 1-PS4-1
	SP: 3-PS2-1		4-ESS3-2		CC: 1-PS4-2
	SP: 3-PS2-2		MS-ESS3-3		CC: 1-PS4-3
	SP: 4-ESS2-1		HS-ESS2-2		CC: 2-PS1-2
	SP: 4-PS3-2		HS-ESS3-4		SP: MS-ESS3-4
	SP: 5-PS1-3		HS-LS2-7		SP: MS-ETS1-2
	SP: 5-PS1-4		SP: 1		SP: MS-LS1-3
	SP: MS-ESS2-3		DCI: K-ESS2-2		SP: MS-LS1-4
	SP: MS-ESS2-5		DCI: K-ESS3-3		SP: MS-LS2-4
	SP: MS-LS1-1		DCI: 3-ESS3-1		SP: MS-LS2-5
	SP: MS-LS2-1		DCI: 4-ESS3-2		SP: MS-PS2-4
	SP: MS-PS2-2		DCI: MS-ESS3-5		SP: MS-PS3-5
	SP: MS-PS3-4		DCI: MS-LS2-2		<b>reinterpret</b>
SP: HS-ESS2-4	<b>refine</b>	<b>relate</b>	1-ESS1-2		
SP: HS-ESS2-5			4-PS3-4	4-PS3-1	
SP: HS-LS1-3			HS-ESS3-4	MS-PS4-1	
SP: HS-PS1-5			HS-LS2-7	HS-LS3-3	
SP: HS-PS2-1			HS-PS1-6	HS-LS4-1	
SP: HS-PS2-4			HS-PS2-3	HS-LS4-6	
SP: HS-PS2-5			HS-PS3-3	CC: K-2-ETS1-2	
SP: HS-PS3-4			SP: HS-ESS2-5	CC: 1-LS1-1	
<b>quantify</b>			CC: HS-ESS2-1	SP: HS-ESS3-4	CC: 2-LS2-2
			CC: HS-ESS3-3	SP: HS-ETS1-1	CC: MS-PS1-2
			CC: HS-ESS3-5	SP: HS-LS1-3	CC: HS-LS2-2
			DCI: HS-ETS1-1	SP: HS-LS2-7	DCI: 5-LS2-1
			DCI: HS-PS2-3	SP: HS-LS3-1	DCI: MS-ESS3-2
			DCI: HS-PS3-1	SP: HS-PS1-3	DCI: HS-PS4-1
			DCI: HS-PS3-3	SP: HS-PS1-6	<b>rely</b>
<b>receive</b>	4-LS1-2	SP: HS-PS2-5	DCI: MS-LS2-5		
	DCI: 1-PS4-4	SP: HS-PS3-3	<b>repeat</b>	CC: 1-ESS1-1	
	DCI: 4-PS4-3	SP: HS-PS3-4	<b>report</b>	SP: HS-LS1-3	
<b>record</b>	SP: 3	SP: HS-PS4-2		SP: HS-PS4-4	
	DCI: K-ESS2-1	<b>report</b>			
	DCI: 3-ESS2-1				
	SP: K-2-ETS1-3				
	SP: K-ESS2-1				
	SP: K-LS1-1				
	SP: K-PS2-2				
	SP: 1-ESS1-1				
SP: 2-PS1-2					
SP: MS-PS2-2					
SP: MS-PS3-4					



<b>represent</b>	K-ESS3-1 2-ESS2-2 3-ESS2-1 4-PS4-3 5-ESS1-2 MS-PS1-5 SP: 5 SP: 6 CC: MS-ESS1-2 CC: MS-ESS2-6 CC: MS-PS2-1 CC: MS-PS2-4 CC: MS-PS3-2 SP: K-2-ETS1-2 SP: K-ESS3-1 SP: 2-LS2-2 SP: 3-ESS2-1 SP: 3-LS1-1 SP: 4-LS1-2 SP: 4-PS4-1 SP: 4-PS4-2 SP: 5-ESS1-2 SP: 5-ESS2-1 SP: 5-LS2-1 SP: 5-PS1-1 SP: 5-PS3-1 SP: MS-ETS1-4 SP: HS-ESS1-4 SP: HS-ESS3-3 SP: HS-ESS3-6 SP: HS-ETS1-4 SP: HS-LS2-1 SP: HS-LS2-2 SP: HS-LS2-4 SP: HS-LS4-6 SP: HS-PS1-7 SP: HS-PS2-2 SP: HS-PS2-4(a) SP: HS-PS2-4(b) SP: HS-PS3-1 SP: HS-PS4-1
	<b>resolve</b>

<b>respond</b>	K-ESS3-2 4-LS1-2 MS-LS1-8 DCI: K-ESS3-2 DCI: 1-LS1-1 DCI: MS-LS1-8
	<b>reverse</b>
<b>revise</b>	HS-LS1-6 HS-LS2-2 HS-LS2-3 HS-LS4-6 HS-PS1-2 SP: 3 SP: 7 CC: MS-ESS2-3 SP: 3-LS1-1 SP: 4-LS1-2 SP: 4-PS4-1 SP: 4-PS4-2 SP: 5-ESS2-1 SP: 5-LS2-1 SP: 5-PS1-1 SP: 5-PS3-1 SP: MS-ESS1-1 SP: MS-ESS1-2 SP: MS-ESS2-1 SP: MS-ESS2-3 SP: MS-ESS2-4 SP: MS-ESS2-6 SP: MS-ETS1-4 SP: MS-LS1-2 SP: MS-LS1-7 SP: MS-LS2-3 SP: MS-LS3-1 SP: MS-LS3-2 SP: MS-PS1-1 SP: MS-PS1-4 SP: MS-PS1-5 SP: MS-PS3-2 SP: MS-PS4-2 SP: HS-LS1-6 SP: HS-LS2-2 SP: HS-LS2-3 SP: HS-LS4-6 SP: HS-PS1-2

<b>search</b>	SP: 7 SP: 2-PS1-4
<b>shape</b>	BBK MS-ESS2-2 CC: MS-PS1-3 CC: MS-PS4-2 CC: HS-ESS2-5 DCI: 4-ESS2-1 DCI: 5-ESS2-1 DCI: MS-ESS2-2 DCI: HS-ESS3-1
	<b>share</b>

<b>solve</b>	K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3 1-LS1-1 1-PS4-4 3-PS2-4 5-PS1-1 5-PS1-2 MS-PS1-6 HS-ETS1-2 HS-PS1-7 SP: 1 SP: 4 SP: 6 CC: HS-LS1-1 CC: HS-PS2-6 DCI: K-2-ETS1-1 DCI: K-PS2-2 DCI: 3-5-ETS1-3 DCI: 4-PS4-3 DCI: HS-ESS2-5 DCI: HS-ETS1-4 DCI: HS-LS4-6 SP: K-2-ETS1-1 SP: K-PS3-2 SP: 1-LS1-1 SP: 1-PS4-4 SP: 3-5-ETS1-1 SP: 3-PS2-4 SP: 4-PS3-4 SP: MS-ETS1-1 SP: HS-PS1-5 SP: HS-PS2-3	<b>specify</b>	HS-ETS1-1 HS-PS1-6 SP SP: 3-5-ETS1-1 SP: 3-5-ETS1-2 SP: 3-LS3-2 SP: 3-LS4-2 SP: 3-PS2-3 SP: 3-PS2-4 SP: 4-ESS1-1 SP: 4-ESS3-2 SP: 4-PS3-1 SP: 4-PS3-3 SP: 4-PS3-4 SP: 4-PS4-3 SP: MS-ESS3-5 SP: MS-ETS1-1 SP: MS-PS2-3 SP: HS-ETS1-1	<b>support</b>	MS-LS1-4 MS-LS1-7 MS-LS2-4 MS-LS4-6 MS-PS2-4 MS-PS3-5 MS-PS4-3 HS-LS1-6 HS-LS2-1 HS-LS2-2 HS-LS2-4 HS-LS2-8 HS-LS3-2 HS-LS4-1 HS-LS4-3 HS-LS4-5 HS-PS1-7 HS-PS2-1 HS-PS2-2 HS-PS4-1 HS-PS4-3 CC: K-PS2-1 CC: K-PS2-2 CC: 1-PS4-1 CC: 1-PS4-2 CC: 1-PS4-3 CC: 2-PS1-2 CC: 4-ESS1-1 CC: 4-ESS2-2 CC: HS-ESS2-4 CC: HS-ESS3-5 DCI: 5-ESS2-1 DCI: MS-LS1-7 DCI: MS-LS4-6 DCI: HS-ESS1-2 DCI: HS-ESS3-3 DCI: HS-LS2-1 DCI: HS-LS2-2 DCI: HS-LS2-7 DCI: HS-LS4-6 SP: K-ESS2-2 SP: K-PS2-1 SP: K-PS3-1 SP: 1-ESS1-2 SP: 1-PS4-1
	<b>sort</b>		CC: 3-LS3-1 CC: 4-PS4-1 CC: 4-PS4-3 CC: 5-ESS1-2		<b>study</b>
		<b>substantiate</b>	CC: HS-ESS1-2 CC: HS-ESS1-6 CC: HS-LS4-1 CC: HS-PS4-3		
		<b>suggest</b>	DCI: 3-5-ETS1-3 CC: HS-PS3-5 CC: HS-PS4-4		
		<b>support</b>	K-ESS2-2 3-LS3-2 4-ESS1-1 4-LS1-1 5-ESS1-1 5-LS1-1 5-PS2-1 MS-ESS3-4 MS-LS1-3		

<b>support (cont'd)</b>	SP: 1-PS4-3 SP: 2-LS2-1 SP: 2-LS4-1 SP: 2-PS1-1 SP: 2-PS1-4 SP: 3-5-ETS1-3 SP: 3-LS3-2 SP: 3-PS2-1 SP: 3-PS2-2 SP: 4-ESS1-1 SP: 4-ESS2-1 SP: 4-PS3-2 SP: 5-ESS1-1 SP: 5-LS1-1 SP: 5-PS1-3 SP: 5-PS1-4 SP: MS-ESS1-4 SP: MS-ESS2-2 SP: MS-ESS2-5 SP: MS-ESS3-1 SP: MS-ESS3-3 SP: MS-ESS3-4 SP: MS-ETS1-2 SP: MS-LS1-1 SP: MS-LS1-3 SP: MS-LS1-4 SP: MS-LS1-5 SP: MS-LS1-6 SP: MS-LS1-8 SP: MS-LS2-2 SP: MS-LS2-4 SP: MS-LS2-5 SP: MS-LS4-2 SP: MS-LS4-4 SP: MS-LS4-5 SP: MS-LS4-6 SP: MS-PS1-3 SP: MS-PS1-6 SP: MS-PS2-1 SP: MS-PS2-2 SP: MS-PS2-4 SP: MS-PS2-5 SP: MS-PS3-3 SP: MS-PS3-4 SP: MS-PS3-5	<b>support</b>	SP: MS-PS4-1 SP: HS-ESS1-2 SP: HS-ESS1-6 SP: HS-ESS2-4 SP: HS-ESS3-1 SP: HS-ESS3-4 SP: HS-ESS3-5 SP: HS-ESS3-6 SP: HS-ETS1-2 SP: HS-ETS1-3 SP: HS-LS1-1 SP: HS-LS1-6 SP: HS-LS2-1 SP: HS-LS2-2 SP: HS-LS2-3 SP: HS-LS2-4 SP: HS-LS2-7 SP: HS-LS4-2 SP: HS-LS4-4 SP: HS-PS1-2 SP: HS-PS1-5 SP: HS-PS1-6 SP: HS-PS1-7 SP: HS-PS2-3 SP: HS-PS3-3 SP: HS-PS4-1	<b>synthesize</b>	MS-LS1-8 MS-LS4-5 SP: MS-LS1-8 SP: MS-LS4-5 SP: MS-PS1-3 SP: HS-ESS1-1 SP: HS-ESS2-1 SP: HS-ESS2-3 SP: HS-ESS2-4 SP: HS-ESS2-6 SP: HS-LS1-2 SP: HS-LS1-4 SP: HS-LS1-5 SP: HS-LS1-7 SP: HS-LS2-5 SP: HS-PS1-1 SP: HS-PS1-4 SP: HS-PS1-8 SP: HS-PS3-2 SP: HS-PS3-5
				<b>test</b>	K-2-ETS1-3 2-PS1-2 4-ESS2-1 4-PS3-4 MS-PS1-6 MS-PS3-3 HS-ESS2-5 HS-LS4-6 SP: 2 SP: 3 SP: 5 SP: 7 CC: K-PS2-1 CC: K-PS2-2 CC: 3-ESS3-1 CC: 3-PS2-3 CC: 4-ESS2-1 CC: 4-ESS3-2 CC: 5-PS1-4 DCI: K-2-ETS1-3 DCI: 2-ESS2-1 DCI: 3-5-ETS1-2 DCI: 3-5-ETS1-3 DCI: 4-ESS3-2 DCI: 4-PS4-3

<b>test</b> <b>(cont'd)</b>	DCI: MS-ETS1-4	<b>test</b>	SP: HS-PS2-5 SP: HS-PS3-4
	DCI: MS-PS1-6	<b>trace</b>	MS-LS1-6 DCI: 5-LS2-1 DCI: MS-PS4-2
	DCI: MS-PS3-3	<b>track</b>	CC: MS-LS2-3 CC: MS-PS1-6 CC: MS-PS3-3
	DCI: HS-ETS1-4	<b>understand</b>	CC: HS-LS2-2 DCI: K-2-ETS1-1 DCI: HS-PS1-4 DCI: HS-PS1-5 DCI: HS-PS3-2
	DCI: HS-LS4-6	<b>undertake</b>	MS-PS1-6 SP: MS-PS1-6
	SP: K-ESS3-2	<b>validate</b>	CC: HS-ESS1-2 CC: HS-ESS1-6 CC: HS-LS4-1 CC: HS-PS4-3
	SP: K-PS2-1	<b>vary</b>	MS-ESS2-6 MS-PS1-1 DCI: 1-LS3-1 DCI: 3-ESS2-2 DCI: 3-LS2-1 DCI: 3-LS3-1 DCI: MS-ESS2-6 DCI: MS-LS2-2 DCI: MS-LS2-4 DCI: HS-LS4-1
	SP: K-PS3-1	<b>verify</b>	SP: HS-PS4-4
	SP: 1-ESS1-2	<b>visualize</b>	CC: MS-LS1-2 CC: MS-LS3-1
	SP: 1-PS4-1		
	SP: 1-PS4-3		
	SP: 2-LS2-1		
	SP: 2-LS4-1		
	SP: 2-PS1-1		
	SP: 2-PS1-2		
	SP: 3-5-ETS1-3		
	SP: 3-PS2-2		
	SP: 4-ESS2-1		
	SP: 4-LS1-2		
	SP: 4-PS3-2		
	SP: 5-PS1-3		
	SP: 5-PS1-4		
	SP: MS-ESS1-1		
	SP: MS-ESS1-2		
	SP: MS-ESS2-1		
	SP: MS-ESS2-4		
	SP: MS-ESS2-5		
SP: MS-ESS2-6			
SP: MS-ETS1-4			
SP: MS-LS1-2			
SP: MS-LS1-7			
SP: MS-LS2-3			
SP: MS-LS3-1			
SP: MS-LS3-2			
SP: MS-PS1-1			
SP: MS-PS1-4			
SP: MS-PS1-5			
SP: MS-PS2-2			
SP: MS-PS2-5			
SP: MS-PS3-2			
SP: MS-PS3-4			
SP: MS-PS4-2			
SP: HS-ESS2-5			
SP: HS-LS1-3			
SP: HS-PS1-3			

# Domain-Specific Vocabulary Terms

Term	Source
<b>ability to support life</b>	BBK
<b>abiotic</b>	MS-LS2-2 HS-LS4-4
<b>abiotic components of ecosystems</b>	BBK
<b>absorb</b>	MS-PS1-6 MS-PS4-2 HS-PS4-4 DCI: MS-ESS2-6 DCI: MS-PS4-2 DCI: HS-ESS1-2 DCI: HS-ESS2-5 DCI: HS-ESS3-6 DCI: HS-PS4-4 DCI: HS-PS4-5
<b>absorbency</b>	2-PS1-2
<b>absorption</b>	HS-PS1-4 DCI: HS-ESS2-2 DCI: HS-ESS2-4 DCI: HS-PS1-8
<b>abstract</b>	SP: 4-PS4-1 SP: MS-ESS1-1 SP: MS-ESS1-2 SP: MS-ESS2-1 SP: MS-ESS2-4 SP: MS-ESS2-6 SP: MS-ETS1-4 SP: MS-LS1-2 SP: MS-LS1-7 SP: MS-LS2-3 SP: MS-LS3-1 SP: MS-LS3-2 SP: MS-PS1-1 SP: MS-PS1-4 SP: MS-PS1-5 SP: MS-PS3-2 SP: MS-PS4-2

<b>abundance</b>	DCI: HS-ESS2-5 DCI: HS-LS2-1 DCI: HS-LS2-2
<b>abundant</b>	MS-LS2-1
<b>acceleration</b>	BBK HS-PS2-1
<b>accelerator</b>	BBK
<b>account</b>	1-LS3-1 1-PS4-2 2-PS1-3 MS-ETS1-1 HS-ESS1-6 HS-ETS1-1 HS-ETS1-3 CC: MS-PS1-3 CC: MS-PS4-2 DCI: 3-5-ETS1-1 DCI: 4-PS3-4 DCI: HS-ESS3-4 DCI: HS-ETS1-1 DCI: HS-ETS1-3 DCI: HS-LS2-7 DCI: HS-LS4-6 DCI: HS-PS2-3 DCI: HS-PS3-3 SP: K-PS3-2 SP: 1-LS3-1 SP: 1-PS4-4 SP: 2-ESS1-1 SP: 2-ESS2-1 SP: 2-PS1-3 SP: HS-ESS2-4 SP: HS-PS1-5 SP: HS-PS2-3 SP:

<b>accuracy</b>	SP: 3-ESS2-2 SP: 4-ESS3-1 SP: 5-ESS3-1 SP: MS-LS1-8 SP: MS-LS4-5 SP: MS-PS1-3 SP: HS-ESS2-5 SP: HS-LS1-3 SP: HS-PS1-3 SP: HS-PS2-5 SP: HS-PS3-4
<b>acid</b>	BBK
<b>acid-base reactions</b>	BBK
<b>acidification</b>	HS-ESS3-6
<b>acidity</b>	HS-LS4-4
<b>acquired trait</b>	BBK
<b>actual mass</b>	BBK
<b>adaptation</b>	BBK HS-LS4-2 HS-LS4-4 DCI: 3-LS4-3 DCI: MS-LS4-6 DCI: HS-LS4-3 DCI: HS-LS4-4
<b>adaptive characteristics</b>	BBK
<b>adult</b>	DCI: 1-LS1-2 DCI: MS-LS1-5
<b>advance</b>	SP: 8 CC: MS-ESS1-3 CC: MS-LS1-1 CC: MS-LS4-5 CC: MS-PS1-3 CC: MS-PS4-3 CC: HS-LS3-3 SP: HS-ESS3-5
<b>advantage</b>	3-LS4-2 HS-PS4-2 SP: 8 DCI: 3-LS4-2

<b>advantageous</b>	HS-LS4-3 DCI: HS-LS4-3 DCI: HS-LS4-4
<b>advection</b>	BBK
<b>adverse</b>	HS-LS4-6 DCI: HS-LS2-7 DCI: HS-LS4-6
<b>aerobic</b>	HS-LS2-3
<b>aesthetics</b>	HS-ETS1-3 SP: 6 DCI: HS-ETS1-3 DCI: HS-LS2-7 DCI: HS-LS4-6 DCI: HS-ESS3-2 DCI: HS-ESS3-4
<b>age</b>	5-ESS1-1 MS-ESS1-4 HS-ESS1-5 HS-ESS1-6 DCI: HS-ESS1-5 DCI: HS-ESS1-6
<b>age of the universe</b>	BBK
<b>agreed-upon</b>	SP: MS-ETS1-2 SP: MS-LS2-5
<b>agricultural</b>	MS-ESS3-5 HS-ESS3-2 HS-ESS3-3
<b>agriculture</b>	MS-ESS3-3 HS-ESS3-4 DCI: 5-ESS3-1
<b>air mass</b>	MS-ESS2-5
<b>air mass circulation</b>	BBK
<b>air movement</b>	BBK
<b>Albert Einstein</b>	BBK
<b>Alfred Wegener</b>	BBK
<b>algae</b>	DCI: MS-LS1-6 DCI: HS-LS2-4

<b>algebraic</b>	CC: HS-ESS1-4 CC: HS-LS3-3 SP: HS-ESS1-4 SP: HS-ESS3-3 SP: HS-ESS3-6 SP: HS-ETS1-4 SP: HS-LS2-1 SP: HS-LS2-2 SP: HS-LS2-4 SP: HS-LS4-6 SP: HS-PS1-7 SP: HS-PS2-2 SP: HS-PS2-4(a) SP: HS-PS2-4(b) SP: HS-PS3-1 SP: HS-PS4-1
<b>allele</b>	DCI: MS-LS3-2
<b>alternative</b>	MS-PS1-3 SP: 1 SP: 7 SP: 5-ESS2-2 SP: 5-PS1-2
<b>altitude</b>	MS-ESS2-6 DCI: MS-ESS2-6
<b>amino acid</b>	HS-LS1-6 DCI: HS-LS1-6 DCI: HS-LS4-1
<b>amino acid sequence</b>	BBK
<b>ammonia</b>	MS-PS1-1
<b>ammonium chloride</b>	MS-PS1-6
<b>amplitude</b>	BBK 4-PS4-1 MS-PS4-1 DCI: 4-PS4-1 DCI: MS-PS4-1
<b>anaerobic</b>	HS-LS2-3 DCI: HS-LS2-3
<b>analog</b>	MS-PS4-3

<b>anatomical</b>	MS-LS4-1 MS-LS4-2 HS-LS4-1 DCI: MS-LS4-2 DCI: HS-LS4-1 DCI: HS-LS4-3 DCI: HS-LS4-4
<b>anatomical characteristic</b>	BBK
<b>anatomy</b>	MS-LS4-3
<b>ancestry</b>	HS-LS4-1
<b>ancient</b>	HS-ESS1-6 DCI: MS-ESS2-3
<b>ancient core</b>	HS-ESS1-5
<b>angle</b>	4-ESS2-1
<b>animal features</b>	BBK
<b>animal husbandry</b>	MS-LS4-5
<b>animal product</b>	BBK
<b>anthropogenic</b>	DCI: HS-LS2-7
<b>Antoine Lavoisier</b>	BBK
<b>apparent movement of the planets</b>	BBK
<b>apparent movement of the stars</b>	BBK
<b>apparent movement of the sun</b>	BBK
<b>application</b>	HS-LS4-5 HS-PS1-6 HS-PS1-7
<b>applied force</b>	BBK
<b>approximation</b>	CC: HS-PS3-1
<b>aquatic</b>	DCI: MS-LS2-3
<b>aquifer</b>	MS-ESS3-3

<b>area</b>	K-ESS3-1 K-PS3-2 2-ESS2-2 3-LS4-1 DCI: 2-ESS2-2 DCI: 2-LS4-1 DCI: 3-ESS2-1 DCI: 3-ESS2-2 DCI: 4-ESS2-2 DCI: MS-ESS1-1 SP: 5-ESS2-2
<b>arise</b>	DCI: MS-LS3-1 DCI: MS-LS3-2 SP: HS-LS3-1
<b>artificial selection</b>	MS-LS4-5 DCI: MS-LS4-5
<b>asexual reproduction</b>	BBK MS-LS3-2
<b>aspect</b>	3-T-ETS1-3 CC: HS-ESS2-2 CC: HS-ESS3-2 CC: HS-ETS1-1 CC: HS-ETS1-3 SP: HS-ESS1-2 SP: HS-ESS1-6 SP: HS-LS4-1 SP: HS-PS4-3
<b>asteroid</b>	BBK DCI: MS-ESS1-2 DCI: MS-ESS1-3 DCI: HS-ESS1-6
<b>asteroid impact</b>	BBK
<b>asteroid movement patterns</b>	BBK
<b>astronomical</b>	HS-ESS1-2
<b>astronomical distance</b>	BBK
<b>astronomical object</b>	BBK
<b>astronomical size</b>	BBK
<b>astronomy</b>	BBK

<b>atmosphere</b>	BBK 5-ESS2-1 5-ESS2-2 MS-ESS1-3 HS-ESS2-6 HS-ESS2-7 HS-ESS3-4 HS-ESS3-5 HS-ESS3-6 HS-LS2-5 DCI: 5-ESS2-1 DCI: 5-ESS2-2 DCI: MS-ESS2-4 DCI: MS-ESS2-5 DCI: MS-ESS2-6 DCI: MS-ESS3-1 DCI: MS-LS1-6 DCI: HS-ESS2-2 DCI: HS-ESS2-4 DCI: HS-ESS2-6 DCI: HS-ESS3-6 DCI: HS-LS2-4 DCI: HS-LS2-5
<b>atmospheric</b>	MS-ESS3-5 HS-ESS2-4 HS-ESS3-6 DCI: MS-ESS2-6 DCI: HS-ESS2-6 DCI: HS-ESS2-7
<b>atmospheric change</b>	BBK
<b>atmospheric circulation</b>	MS-ESS2-6
<b>atmospheric composition</b>	BBK
<b>atmospheric layers</b>	BBK
<b>atmospheric pressure</b>	BBK

<b>atom</b>	BBK MS-PS1-1 MS-PS1-4 MS-PS1-5 HS-LS2-4 HS-PS1-1 HS-PS1-2 HS-PS1-3 HS-PS1-7 HS-PS1-8 CC: MS-LS1-7 CC: MS-PS1-5 CC: HS-ESS1-3 CC: HS-PS1-8 DCI: MS-LS2-3 DCI: MS-PS1-1 DCI: MS-PS1-2 DCI: MS-PS1-3 DCI: MS-PS1-4 DCI: MS-PS1-5 DCI: HS-ESS1-2 DCI: HS-PS1-1 DCI: HS-PS1-2 DCI: HS-PS1-3 DCI: HS-PS1-4 DCI: HS-PS1-5 DCI: HS-PS1-7 DCI: HS-PS2-6 DCI: HS-PS4-4
<b>atomic</b>	MS-PS1-1 DCI: HS-ESS1-2 DCI: HS-ESS1-3
<b>atomic arrangement</b>	BBK
<b>atomic bomb</b>	BBK
<b>atomic bonding principles</b>	BBK
<b>atomic configuration</b>	BBK
<b>atomic energy</b>	BBK
<b>atomic-level</b>	CC: MS-PS1-2 CC: MS-PS1-5
<b>atomic mass</b>	BBK
<b>atomic motion</b>	BBK
<b>atomic nucleus</b>	BBK
<b>atomic number</b>	BBK

<b>atomic reaction</b>	BBK
<b>atomic scale</b>	DCI: HS-PS2-6
<b>atomic theory</b>	BBK
<b>atomic weight</b>	BBK
<b>attract</b>	MS-LS1-4
<b>attraction</b>	DCI: HS-PS1-1 DCI: HS-PS1-3 DCI: HS-PS2-6
<b>attractive</b>	MS-PS2-4 HS-PS2-6 DCI: MS-PS2-3 DCI: MS-PS2-4
<b>available</b>	MS-LS2-1 HS-ESS1-6 DCI: 1-PS4-2 DCI: 3-5-ETS1-1 DCI: 4-PS3-4 DCI: 5-ESS2-2 SP: MS-PS2-3
<b>average (adjective)</b>	3-ESS2-1 MS-PS3-4 DCI: MS-PS1-4 DCI: MS-PS3-3 DCI: MS-PS3-4 DCI: HS-ESS3-6
<b>average (noun)</b>	HS-LS2-2
<b>Avogadro's hypothesis</b>	BBK
<b>axis</b>	HS-ESS2-4 DCI: 5-ESS1-2 DCI: MS-ESS1-1 DCI: HS-ESS2-4
<b>backbone</b>	DCI: HS-LS1-6
<b>bacteria</b>	DCI: 5-LS2-1
<b>baking soda</b>	5-PS1-3
<b>balance</b>	BBK
<b>balanced force</b>	BBK 3-PS2-1 MS-PS2-2 DCI: HS-PS2-2 DCI: HS-PS2-3
<b>band</b>	DCI: 4-ESS2-2
<b>barrier</b>	3-ESS3-1 HS-LS4-4
<b>base</b>	BBK

<b>battery</b>	BBK DCI: HS-PS2-5
<b>beam</b>	1-PS4-3 DCI: 1-PS4-3
<b>bedrock</b>	BBK
<b>behavior</b>	1-LS1-2 4-LS1-1 MS-LS1-4 MS-LS1-8 HS-LS2-8 HS-LS4-2 HS-PS4-5 SP: 5 CC: HS-PS3-1 DCI: 1-LS1-1 DCI: 3-LS2-1 DCI: 4-LS1-1 DCI: MS-ESS3-5 DCI: MS-LS1-4 DCI: MS-LS1-8 DCI: HS-LS1-3 DCI: HS-LS2-8 DCI: HS-PS3-1
<b>behavior patterns</b>	BBK
<b>behavioral</b>	DCI: HS-LS4-3 DCI: HS-LS4-4
<b>behavioral change in organisms</b>	BBK
<b>behavioral response to stimuli</b>	BBK
<b>beneficial</b>	MS-LS2-2 MS-LS3-1 DCI: MS-LS3-1
<b>beneficial change</b>	BBK
<b>Bernoulli's principle</b>	BBK

<b>best</b>	2-PS1-2 MS-ETS1-3 SP: 4 SP: 6 SP: 7 DCI: 3-5-ETS1-3 DCI: 4-PS4-3 DCI: MS-ETS1-3 DCI: MS-PS1-6
<b>best practice</b>	HS-ESS3-2
<b>Big Bang theory</b>	HS-ESS1-2 DCI: HS-ESS1-2 DCI: HS-ESS1-3
<b>binary</b>	MS-PS4-3
<b>biochemical characteristics</b>	BBK
<b>biodiversity</b>	MS-LS2-5 HS-ESS3-3 HS-LS2-2 HS-LS2-7 HS-LS4-6 DCI: MS-LS2-5 DCI: HS-ESS3-3 DCI: HS-LS2-7 DCI: HS-LS4-6
<b>biogeochemical</b>	HS-ESS2-6
<b>biogeology</b>	DCI: K-ESS2-2 DCI: 4-ESS2-1 DCI: HS-ESS2-7
<b>biological</b>	BBK MS-LS2-4 HS-LS2-6 HS-LS4-1 DCI: MS-LS2-4 DCI: HS-LS2-2 DCI: HS-LS2-5 DCI: HS-LS2-6 DCI: HS-LS4-1
<b>biological evolution</b>	BBK
<b>biological molecule</b>	BBK
<b>biomass</b>	HS-ESS3-4 HS-ESS3-6 HS-LS2-4



<b>biosphere</b>	5-ESS2-1 HS-ESS2-6 HS-ESS2-7 HS-ESS3-6 HS-LS2-5 DCI: 5-ESS2-1 DCI: MS-ESS3-1 DCI: MS-ESS3-3 DCI: HS-ESS2-7 DCI: HS-ESS3-6 DCI: HS-LS2-5
<b>biotic</b>	HS-LS4-4
<b>birth</b>	BBK 3-LS1-1
<b>blood</b>	HS-LS1-2
<b>body</b>	MS-LS1-3 HS-LS1-1 HS-LS1-7 DCI: 1-LS1-1 DCI: MS-LS1-3 DCI: HS-LS1-7 DCI: HS-PS4-3 SP: HS-ESS1-2 SP: HS-ESS1-6 SP: HS-LS4-1
<b>body of water</b>	BBK 2-ESS2-2
<b>body plan</b>	BBK
<b>body repair</b>	5-PS3-1 DCI: 5-PS3-1
<b>body warmth</b>	5-PS3-1
<b>boiling point</b>	BBK HS-PS1-3
<b>bond</b>	HS-LS1-7 HS-PS1-1 HS-PS1-4 DCI: HS-LS1-7 DCI: HS-PS1-4 DCI: HS-PS1-5
<b>bone</b>	BBK
<b>boulder</b>	BBK

<b>brain</b>	4-LS1-1 4-LS1-2 MS-LS1-8 DCI: 4-LS1-2 DCI: MS-LS1-8
<b>branch (noun)</b>	1-LS1-1
<b>branch (verb)</b>	DCI: HS-LS4-1
<b>break down</b>	DCI: 5-LS2-1 DCI: MS-LS1-7 DCI: HS-ETS1-2 DCI: HS-PS1-6 DCI: HS-PS2-3
<b>breakdown of food molecules</b>	BBK
<b>breed</b>	1-LS3-1 MS-LS1-4 MS-LS1-5 DCI: MS-LS4-5
<b>brightness</b>	5-ESS1-1 DCI: MS-PS4-2 DCI: HS-ESS1-2 DCI: HS-ESS1-3
<b>building block</b>	DCI: MS-PS1-4
<b>bulk scale</b>	HS-PS1-3 DCI: HS-PS1-3 DCI: HS-PS2-6
<b>buoyancy</b>	BBK
<b>burn</b>	BBK 4-ESS3-1 MS-PS1-2 DCI: MS-ESS3-5 DCI: HS-ESS1-1
<b>calcium chloride</b>	MS-PS1-6
<b>calculator</b>	BBK
<b>camouflage</b>	3-LS4-2
<b>canopy</b>	K-PS3-2
<b>canyon</b>	4-ESS1-1
<b>capability</b>	DCI: MS-ESS3-5
<b>capacity</b>	HS-LS2-1 CC: MS-PS4-3 DCI: MS-LS4-5 DCI: HS-ESS2-5 DCI: HS-LS2-1 DCI: HS-LS2-2

<b>carbon</b>	HS-ESS2-6 HS-LS1-6 HS-LS2-4 HS-LS2-5 HS-PS1-2 DCI: MS-LS1-6 DCI: MS-LS1-7 DCI: HS-LS1-6 DCI: HS-LS2-5
<b>carbon atom</b>	BBK
<b>carbon cycle</b>	BBK
<b>carbon dioxide</b>	BBK MS-ESS3-5 MS-PS1-4 HS-ESS3-6 DCI: MS-LS1-6 DCI: MS-LS1-7 DCI: HS-ESS2-4 DCI: HS-ESS2-6 DCI: HS-ESS2-7 DCI: HS-LS1-5
<b>carrying capacity</b>	BBK HS-LS2-1 DCI: HS-LS2-1 DCI: HS-LS2-2
<b>catalyst</b>	BBK
<b>catastrophic</b>	MS-ESS2-2 MS-ESS3-2
<b>celestial body</b>	BBK
<b>cell</b>	BBK MS-LS1-1 MS-LS1-2 HS-LS1-1 DCI: MS-LS1-1 DCI: MS-LS1-2 DCI: HS-LS1-4 DCI: HS-LS3-1
<b>cell division</b>	BBK DCI: HS-LS3-2
<b>cell function</b>	BBK
<b>cell growth</b>	BBK
<b>cell membrane</b>	BBK MS-LS1-2 DCI: MS-LS1-2
<b>cell organelle</b>	BBK

<b>cell phone</b>	CC: 3-ESS3-1 DCI: 4-PS4-3
<b>cell wall</b>	BBK MS-LS1-2
<b>cellular communication</b>	BBK
<b>cellular differentiation</b>	BBK
<b>cellular division</b>	HS-LS1-4 DCI: HS-LS1-4
<b>cellular energy conversion</b>	BBK
<b>cellular regulation</b>	BBK
<b>cellular respiration</b>	HS-LS1-7 HS-LS2-5 DCI: MS-LS1-7 DCI: HS-LS1-7 DCI: HS-LS2-4 DCI: HS-LS2-5
<b>cellular response</b>	BBK
<b>cellular waste disposal</b>	BBK
<b>Celsius</b>	Marzano Research
<b>chained molecules</b>	HS-PS2-6
<b>challenge</b>	HS-ETS1-1 DCI: HS-ETS1-1 DCI: HS-LS2-1 DCI: HS-LS2-2 DCI: HS-LS2-6 SP: HS-PS4-2
<b>change of direction</b>	BBK
<b>change of motion</b>	BBK
<b>change of speed</b>	BBK
<b>change of state</b>	MS-PS1-4
<b>changes in the Earth's surface</b>	BBK

<b>characteristic</b>	3-LS4-2 3-LS4-3 3-LS4-4 MS-ETS1-3 MS-LS1-4 HS-LS3-1 DCI: 3-LS3-1 DCI: 3-LS3-2 DCI: 3-LS4-2 DCI: 3-LS4-4 DCI: 4-ESS2-1 DCI: MS-ETS1-3 DCI: MS-LS1-4 DCI: MS-LS2-4 DCI: MS-LS4-5 DCI: MS-PS1-2 DCI: MS-PS1-3 DCI: MS-PS1-5 DCI: MS-PS1-6 DCI: HS-ESS1-2 DCI: HS-ESS1-5 DCI: HS-ESS1-6 DCI: HS-LS3-1
<b>characteristics of air</b>	BBK
<b>characteristics of life</b>	BBK
<b>charge</b>	HS-PS3-5 DCI: MS-PS2-3 DCI: HS-PS1-1 DCI: HS-PS2-3 DCI: HS-PS2-4(a) DCI: HS-PS2-4(b) DCI: HS-PS2-5 DCI: HS-PS2-6
<b>charge attraction</b>	BBK
<b>charge repulsion</b>	BBK
<b>charged</b>	DCI: HS-PS1-1 DCI: HS-PS3-1
<b>charged object</b>	BBK DCI: MS-PS2-5
<b>charged rod</b>	3-PS2-3
<b>Charles Darwin</b>	BBK
<b>Charles Lyell</b>	BBK

<b>chemical</b>	HS-ESS2-5 HS-PS1-6 DCI: MS-LS1-8 DCI: MS-PS1-2 DCI: MS-PS1-3 DCI: MS-PS1-5 DCI: HS-LS2-5
<b>chemical bond</b>	BBK
<b>chemical change</b>	BBK DCI: MS-ESS2-1
<b>chemical compound</b>	BBK
<b>chemical element</b>	BBK
<b>chemical energy</b>	BBK
<b>chemical equation</b>	HS-LS1-5
<b>chemical organization of organisms</b>	BBK
<b>chemical process</b>	MS-PS1-3 MS-PS1-6 HS-LS1-7 CC: MS-LS1-7 CC: MS-PS1-5 DCI: 5-PS3-1 DCI: MS-PS1-2 DCI: MS-PS1-3 DCI: MS-PS1-5 DCI: HS-ESS1-1 DCI: HS-ESS2-3 DCI: HS-LS2-5 DCI: HS-PS1-2 DCI: HS-PS1-4 DCI: HS-PS1-5 DCI: HS-PS1-7
<b>chemical properties</b>	BBK DCI: MS-PS1-2 DCI: MS-PS1-3 DCI: HS-ESS2-5 DCI: HS-PS1-1 DCI: HS-PS1-2

<b>chemical reaction</b>	BBK MS-LS1-7 MS-PS1-2 MS-PS1-5 HS-PS1-2 HS-PS1-4 HS-PS1-7 DCI: MS-LS1-7 DCI: MS-PS1-6 DCI: HS-LS1-7
<b>chemical reaction rate</b>	BBK
<b>chemical reaction system</b>	HS-PS1-4 HS-PS1-6
<b>chemical system</b>	HS-PS1-6
<b>chlorine</b>	HS-PS1-2
<b>chloroplast</b>	BBK MS-LS1-2
<b>chromatography</b>	BBK
<b>chromosome</b>	BBK MS-LS3-1 HS-LS3-1 DCI: MS-LS3-1 DCI: MS-LS3-2 DCI: HS-LS3-1 DCI: HS-LS3-2
<b>chromosome pair</b>	BBK
<b>chronological order</b>	MS-LS4-1 DCI: MS-LS4-1
<b>circular motion</b>	BBK
<b>circulatory system</b>	BBK HS-LS1-2
<b>civilization</b>	CC: HS-ESS3-1 CC: HS-ESS3-3 CC: HS-PS3-3 CC: HS-PS4-2 CC: HS-PS4-5

<b>climate</b>	BBK 3-ESS2-2 5-ESS2-1 MS-ESS2-6 HS-ESS2-2 HS-ESS2-4 HS-ESS3-1 HS-ESS3-5 HS-LS2-1 CC: MS-ESS3-2 CC: MS-ESS3-3 CC: MS-LS2-5 CC: MS-PS1-3 CC: MS-PS2-1 CC: MS-ETS1-1 DCI: 3-ESS2-1 DCI: 5-ESS2-1 DCI: MS-ESS2-6 DCI: HS-ESS2-2 DCI: HS-ESS2-4 DCI: HS-ESS2-6 DCI: HS-ESS3-6
<b>climate change</b>	BBK HS-ESS2-4 HS-ESS3-5 HS-LS4-4 DCI: MS-ESS3-5 DCI: HS-ESS3-6 DCI: HS-ESS2-4 DCI: HS-LS2-7 DCI: HS-LS4-6
<b>climate science</b>	DCI: MS-ESS3-5
<b>climatic pattern</b>	BBK
<b>closed system</b>	BBK HS-PS3-4 CC: HS-ESS2-3 CC: HS-PS1-7
<b>cloud</b>	BBK 5-ESS2-1 MS-ESS2-5 DCI: 5-ESS2-1 DCI: HS-ESS2-4
<b>cloudy</b>	K-ESS2-1
<b>coal</b>	HS-ESS3-2

<b>coastal</b>	HS-ESS2-1 HS-ESS2-2
<b>coastline</b>	HS-ESS2-7
<b>code (noun)</b>	DCI: HS-LS3-1
<b>code (verb)</b>	DCI: HS-LS1-1 DCI: HS-LS3-1
<b>coded</b>	4-PS4-3
<b>coevolution</b>	HS-ESS2-7
<b>cold</b>	MS-LS1-4 DCI: MS-PS3-3
<b>collaboratively</b>	SP: 1-PS4-1 SP: 1-PS4-3 SP: 2-LS2-1 SP: 2-PS1-1 SP: 3-5-ETS1-3 SP: 3-PS2-1 SP: 5-PS1-4 SP: MS-PS2-2 SP: MS-PS3-4 SP: HS-ESS2-5 SP: HS-LS1-3 SP: HS-PS1-3 SP: HS-PS2-5 SP: HS-PS3-4
<b>collection</b>	DCI: MS-ESS1-2 DCI: MS-ESS1-3 DCI: MS-LS4-1 SP: 4
<b>collide</b>	4-PS3-3 MS-ESS2-5 DCI: K-PS2-1 DCI: 4-PS3-2 DCI: 4-PS3-3 DCI: MS-ESS2-3 DCI: MS-PS1-4
<b>collision</b>	MS-PS2-1 HS-PS1-5 HS-PS2-3 DCI: 4-PS3-2 DCI: 4-PS3-3 DCI: HS-ESS1-4 DCI: HS-PS1-4 DCI: HS-PS1-5

<b>color</b>	BBK 2-PS1-1 4-LS1-1 4-PS4-2 5-PS1-3 DCI: MS-PS4-2
<b>color of light</b>	BBK
<b>coloration</b>	3-LS4-2
<b>combination</b>	HS-LS3-2 HS-PS3-2 DCI: K-ESS2-1 DCI: HS-ESS2-5 DCI: HS-LS3-2 DCI: HS-PS3-2
<b>combustion</b>	MS-ESS3-5
<b>comet</b>	BBK
<b>comet impact</b>	BBK
<b>comet movement patterns</b>	BBK
<b>comfort</b>	1-LS1-2 DCI: K-ESS2-2 DCI: K-ESS3-3
<b>common ancestry</b>	BBK HS-LS4-1

<b>communicate</b>	K-ESS3-3 1-PS4-4 HS-ESS1-3 HS-LS4-1 HS-PS1-7 HS-PS2-6 HS-PS4-5 CC: 5-ESS1-2 DCI: 1-PS4-4 DCI: 2-LS2-2 DCI: K-2-ETS1-2 DCI: 3-5-ETS1-2 SP: K-ESS3-2 SP: K-ESS3-3 SP: 1-LS1-2 SP: 2-ESS2-3 SP: 3-ESS2-2 SP: 4-ESS3-1 SP: 5-ESS3-1 SP: MS-LS1-8 SP: MS-LS4-5 SP: MS-PS1-3 SP: MS-PS4-3 SP: HS-ESS1-3 SP: HS-LS4-1 SP: HS-PS2-6 SP: HS-PS4-4 SP: HS-PS4-5
<b>communication</b>	MS-PS4-3 HS-PS4-5 SP: 8 DCI: HS-PS4-5
<b>competition</b>	BBK HS-LS2-1 HS-LS4-2 DCI: HS-LS2-1 DCI: HS-LS2-2 DCI: HS-LS4-2
<b>competitive</b>	MS-LS2-2 DCI: MS-LS2-2
<b>composition of matter</b>	BBK
<b>composition of the universe</b>	BBK

<b>compound</b>	HS-LS1-7 DCI: HS-LS1-7
<b>compress</b>	5-PS1-1
<b>compression</b>	DCI: HS-PS3-1
<b>computational</b>	HS-ESS1-4 HS-ESS3-3 HS-ESS3-6 HS-LS2-1 HS-PS3-1 CC: MS-PS4-3 SP: 5-ESS2-2 SP: 5-PS1-2 SP: MS-LS4-6 SP: MS-PS4-1 SP: HS-ESS1-4 SP: HS-ESS2-2 SP: HS-ESS3-3 SP: HS-ESS3-5 SP: HS-ESS3-6 SP: HS-ETS1-4 SP: HS-LS2-1 SP: HS-LS2-2 SP: HS-LS2-4 SP: HS-LS4-6 SP: HS-PS1-7 SP: HS-PS2-1 SP: HS-PS2-2 SP: HS-PS2-4 SP: HS-PS2-4(a) SP: HS-PS2-4(b) SP: HS-PS3-1 SP: HS-PS4-1

<b>computer</b>	BBK MS-ESS1-2 MS-PS1-1 HS-ETS1-4 HS-PS3-2 HS-PS4-2 CC: HS-ETS1-4 CC: HS-LS1-2 CC: HS-LS1-4 CC: HS-LS2-5 CC: HS-PS4-3 DCI: 4-PS4-3 DCI: HS-ESS3-6 DCI: HS-ETS1-4 DCI: HS-LS4-6 DCI: HS-PS4-2 DCI: HS-PS4-5 SP: HS-ETS1-4
<b>computer screen</b>	MS-PS4-3
<b>concentration</b>	MS-PS1-6 HS-ESS3-1 HS-PS1-5 DCI: HS-ESS2-4 DCI: HS-ESS2-6
<b>concentration of reactants</b>	BBK

<b>conceptual</b>	MS-ESS1-1 MS-ESS1-2 MS-ESS2-4 MS-LS1-3 MS-LS3-1 HS-LS1-5 HS-LS1-7 HS-LS2-3 HS-LS4-1 HS-PS2-4(a) HS-PS2-4(b) HS-PS3-4 DCI: 3-PS2-1 SP: MS-LS4-1 SP: MS-PS1-2 SP: MS-PS2-2 SP: MS-PS2-4 SP: MS-PS3-4 SP: MS-PS3-5 SP: MS-PS4-1 SP: HS-ESS2-5 SP: HS-LS1-3 SP: HS-PS1-3 SP: HS-PS2-5 SP: HS-PS3-4
<b>concrete</b>	SP: K-2-ETS1-2 SP: K-ESS3-1 SP: 2-ESS2-2 SP: 2-LS2-2
<b>condensation</b>	BBK MS-ESS2-5 DCI: 5-PS1-3 DCI: MS-ESS2-4
<b>condition-dependent</b>	DCI: HS-PS1-6
<b>conduction</b>	BBK
<b>conductive</b>	HS-PS2-6
<b>conductivity</b>	BBK
<b>conductor</b>	BBK
<b>configuration</b>	SP DCI: HS-PS3-1 DCI: HS-PS3-2

<b>consequence</b>	MS-ESS3-4 CC: MS-ESS3-1 CC: MS-ESS3-4 CC: MS-LS2-5 CC: MS-LS4-5 CC: MS-ETS1-1 DCI: HS-LS4-2
<b>conservation</b>	MS-LS2-3 MS-PS1-5 HS-ESS3-2 HS-ESS3-3 HS-PS2-2 DCI: HS-PS3-1
<b>conservation of energy</b>	BBK
<b>conservation of mass</b>	BBK
<b>conservation of matter</b>	BBK
<b>conserve</b>	5-PS1-2 MS-PS1-5 HS-LS2-4 HS-PS1-4 HS-PS1-7 HS-PS2-2 CC: MS-LS1-7 CC: MS-PS1-5 CC: HS-ESS1-3 CC: HS-ESS2-6 CC: HS-PS1-7 CC: HS-PS1-8 DCI: 5-PS1-2 DCI: MS-PS1-5 DCI: HS-LS2-4 DCI: HS-PS1-2 DCI: HS-PS1-7 DCI: HS-PS3-1 DCI: HS-PS3-2

<b>consideration</b>	MS-LS2-5 DCI: MS-ETS1-1 DCI: MS-PS3-3 SP: HS-ESS3-2 SP: HS-ESS3-4 SP: HS-ETS1-2 SP: HS-ETS1-3 SP: HS-LS2-7 SP: HS-PS1-6 SP: HS-PS3-3	<b>continental</b>	MS-ESS2-3 HS-ESS1-5 HS-ESS2-1 DCI: HS-ESS1-5 DCI: HS-ESS2-1	<b>convert</b>	4-PS3-4 HS-PS3-3 HS-PS4-5 DCI: 4-PS4-3 DCI: HS-LS1-5 DCI: HS-PS3-4 DCI: HS-PS3-4 DCI: HS-PS4-4
<b>consistency</b>	SP: HS-ESS2-2 SP: HS-ESS3-5 SP: HS-LS3-3 SP: HS-LS4-3 SP: HS-PS2-1	<b>continental boundary</b>	4-ESS2-2	<b>convincing</b>	SP: MS-ESS3-4 SP: MS-ETS1-2 SP: MS-LS1-3 SP: MS-LS1-4 SP: MS-LS2-4 SP: MS-LS2-5 SP: MS-PS2-4 SP: MS-PS3-5
<b>constant force</b>	HS-PS2-1	<b>continental crust</b>	MS-ESS2-3 HS-ESS1-5		
<b>constant speed</b>	BBK	<b>continental shelf</b>	MS-ESS2-3	<b>cook</b>	2-PS1-4
<b>constellation</b>	BBK	<b>continuation of species</b>	BBK	<b>cool (adjective)</b>	BBK K-ESS2-1
<b>constrain</b>	MS-ESS2-6 DCI: MS-LS2-1	<b>contribute</b>	MS-LS1-2 HS-LS4-4 DCI: MS-LS3-2 DCI: HS-ESS3-4 DCI: HS-LS4-5 DCI: HS-LS4-6	<b>cool (verb)</b>	BBK 2-PS1-4 4-ESS2-1 5-PS1-2 MS-PS3-4 DCI: 2-PS1-4 DCI: HS-PS3-4
<b>construction</b>	SP: 2 SP: 6 MS-ESS3-3				
<b>consume</b>	DCI: HS-LS2-4	<b>control [variable]</b>	3-5-ETS1-3 MS-PS1-6 SP: 3-5-ETS1-3 SP: 3-PS2-1 SP: 4-ESS2-1 SP: 4-PS3-2 SP: 5-PS1-3 SP: 5-PS1-4	<b>cooperative</b>	HS-LS2-8
<b>consumer</b>	DCI: MS-LS2-3			<b>control of variables</b>	BBK SP: 3
<b>consumption</b>	MS-ESS3-4 HS-ESS3-3 DCI: MS-ESS3-3 DCI: MS-ESS3-4	<b>controlled</b>	3-5-ETS1-3 HS-ESS2-3 SP: 3-5-ETS1-3 SP: 3-PS2-1 SP: 5-PS1-4	<b>Copernican revolution</b>	BBK
<b>contact</b>	3-PS2-3 MS-PS2-5 DCI: 3-PS2-1 DCI: 3-PS2-3 DCI: 3-PS2-4 DCI: MS-PS1-4			<b>controlled experiment</b>	BBK
		<b>convection</b>	BBK HS-ESS2-3 DCI: HS-ESS2-3	<b>coral reef</b>	HS-ESS2-7
<b>contact force</b>	DCI: 4-PS3-3 DCI: HS-PS1-1 DCI: HS-PS1-3 DCI: HS-PS2-6	<b>convection current</b>	BBK	<b>core</b>	BBK HS-ESS1-1 HS-ESS1-5 HS-ESS2-3 DCI: HS-ESS2-3
<b>content</b>	HS-ESS2-5 DCI: HS-LS3-1 SP: 2-ESS2-3	<b>convention cycle</b>	MS-ESS2-6		
		<b>conversion</b>	MS-PS4-3 HS-PS1-7 HS-PS3-2 DCI: 4-PS3-4	<b>correlation coefficient</b>	SP: HS-LS3-3 SP: HS-LS4-3
<b>continent</b>	MS-ESS2-3 MS-ESS2-6 DCI: 4-ESS2-2			<b>cosmic microwave background</b>	HS-ESS1-2 DCI: HS-ESS1-2

<b>cost</b>	3-5-ETS1-1
	4-PS3-4
	HS-ESS3-3
	HS-ETS1-3
	CC: HS-ESS2-2
	CC: HS-ESS3-2
	CC: HS-ESS3-4
	CC: HS-ETS1-1
	CC: HS-ETS1-3
	CC: HS-PS3-3
	CC: HS-PS4-2
	DCI: HS-ESS3-2
	DCI: HS-ESS3-4
	DCI: HS-ETS1-3
	DCI: HS-LS2-7
DCI: HS-LS4-6	
SP: 3-5-ETS1-1	
SP: HS-ESS2-5	
SP: HS-LS1-3	
SP: HS-PS1-3	
SP: HS-PS2-5	
SP: HS-PS3-4	
<b>cost-benefit</b>	HS-ESS3-2
<b>Coulomb’s law</b>	BBK
	HS-PS2-4
	DCI: HS-PS2-4
<b>crater</b>	HS-ESS1-6

<b>criteria</b>	BBK
	3-5-ETS1-1
	3-5-ETS1-2
	MS-ETS1-1
	MS-ETS1-2
	MS-ETS1-3
	HS-ETS1-4
	HS-ETS1-1
	HS-ETS1-3
	HS-ETS1-4
	DCI: 3-5-ETS1-1
	DCI: 3-5-ETS1-3
	DCI: 4-PS3-4
	DCI: 4-PS4-3
	DCI: MS-ETS1-1
	DCI: MS-ETS1-2
	DCI: MS-ETS1-3
	DCI: MS-LS2-5
	DCI: MS-PS3-3
	DCI: HS-ETS1-1
	DCI: HS-ETS1-2
	DCI: HS-PS1-6
	DCI: HS-PS2-3
	DCI: HS-PS3-3
	SP: 3-5-ETS1-1
	SP: 3-5-ETS1-2
	SP: 3-ESS3-1
	SP: 3-LS4-4
	SP: 4-ESS3-2
	SP: 4-PS4-3
	SP: MS-ETS1-1
	SP: MS-ETS1-2
	SP: MS-LS2-5
	SP: MS-PS1-6
	SP: HS-ESS3-4
	SP: HS-ETS1-1
	SP: HS-ETS1-2
SP: HS-ETS1-3	
SP: HS-LS2-7	
SP: HS-PS1-6	
SP: HS-PS3-3	

<b>critical</b>	SP: 7
	CC: HS-ESS2-2 CC: HS-ESS3-2 CC: HS-ETS1-1 CC: HS-ETS1-3
<b>crops</b>	HS-ESS3-1
<b>crust</b>	MS-ESS1-3
	HS-ESS1-5
	DCI: HS-ESS2-1 DCI: HS-ESS2-3
<b>crustal deformation</b>	BBK
<b>crustal plate movement</b>	BBK
<b>cryosphere</b>	HS-ESS3-6
<b>crystal</b>	BBK
<b>crystalline solid</b>	BBK
<b>crystallization</b>	MS-ESS2-1
	DCI: MS-ESS2-4
<b>crystallize</b>	Marzano Research
<b>cultural</b>	HS-ETS1-3
	DCI: HS-ESS3-2
	DCI: HS-ESS3-4
	DCI: HS-ETS1-3
	DCI: HS-LS2-7 DCI: HS-LS4-6
<b>current</b>	HS-ESS1-2
	HS-ESS1-5
	HS-ESS3-5
	DCI: MS-ESS3-1
	DCI: HS-ESS1-5
	DCI: HS-ESS2-1
	DCI: HS-ESS3-5
	DCI: HS-ESS3-6
	SP: HS-ESS1-5
	SP: HS-ESS2-3
	SP: HS-ESS2-7
	SP: HS-ESS3-2
	SP: HS-LS2-6
	SP: HS-LS2-8
	SP: HS-LS3-2
SP: HS-LS4-5	
SP: HS-PS4-3	

<b>cycle (noun)</b>	4-ESS2-1 HS-ESS1-1 CC: HS-ESS1-2 CC: HS-ESS1-4 CC: HS-ESS2-3 CC: HS-PS4-5 DCI: MS-ESS2-4 DCI: HS-ESS2-4 DCI: HS-LS2-5 SP: MS-PS1-6	<b>decomposer</b>	BBK 5-LS2-1 DCI: 5-LS2-1 DCI: MS-LS2-3	<b>derive</b>	4-ESS3-1 SP: 4 SP: 8 CC: 1-LS1-1 CC: 2-PS1-2 DCI: 4-ESS3-1 DCI: MS-ESS2-1
<b>cycle (verb)</b>	MS-ESS2-4 MS-LS1-6 MS-LS2-3 HS-ESS2-6 HS-LS2-3 HS-LS2-4 HS-LS2-5 DCI: 5-LS2-1 DCI: MS-ESS2-1 DCI: MS-LS2-3	<b>decomposition</b>	DCI: 5-LS2-1	<b>derived characteristic</b>	BBK
<b>cyclic</b>	MS-ESS1-1	<b>decrease</b>	MS-LS1-5 MS-LS4-6 MS-PS1-4 HS-ESS2-2 CC: 3-5-ETS1-2 CC: 3-ESS3-1 CC: 4-ESS3-2 CC: HS-ESS3-2 CC: HS-ESS3-4 CC: HS-PS3-3 CC: HS-PS4-2 DCI: HS-ESS2-1 DCI: HS-ESS2-2 DCI: HS-LS2-7 DCI: HS-LS4-3 DCI: HS-LS4-4	<b>descent</b>	DCI: MS-LS4-2 DCI: HS-LS4-1
<b>cyclical</b>	DCI: HS-ESS2-4	<b>deforestation</b>	HS-LS4-5	<b>descriptive</b>	MS-PS3-1 SP: K-2-ETS1-1 SP: K-ESS3-2
<b>cytoplasm</b>	BBK	<b>deform</b>	MS-ESS2-1	<b>design (noun)</b>	2-ESS2-1 MS-ESS3-3 MS-ETS1-4 MS-PS1-6 MS-PS2-5 MS-PS3-3 HS-PS1-6 HS-PS2-3 CC: HS-PS3-3 CC: HS-PS4-2 DCI: K-2-ETS1-2 DCI: K-2-ETS1-3 DCI: K-ESS3-3 DCI: 2-ESS2-1 DCI: 2-LS2-2 DCI: 3-5-ETS1-2 DCI: 3-5-ETS1-3 DCI: MS-ETS1-1 DCI: MS-PS1-6 DCI: HS-ETS1-1 DCI: HS-ETS1-4 DCI: HS-LS4-6 DCI: HS-PS2-3 DCI: HS-PS3-3 SP: MS-ETS1-1 SP: MS-ETS1-3 SP: MS-PS1-1 SP: MS-PS1-4 SP: MS-PS1-5 SP: MS-PS1-6 SP: HS-ESS1-2
<b>daily weather pattern</b>	BBK	<b>degradation</b>	DCI: 4-PS4-3 DCI: HS-ESS3-4		
<b>dam</b>	4-ESS3-1 MS-ESS3-3 HS-ESS2-2 HS-LS2-7	<b>degree of kinship</b>	BBK		
<b>data analysis</b>	BBK	<b>density</b>	BBK 5-PS1-3 MS-PS1-2 HS-ESS2-3 DCI: MS-ESS2-6		
<b>data interpretation</b>	BBK	<b>dependent</b>	CC: HS-ESS1-1 CC: HS-LS2-1 DCI: MS-LS2-1 DCI: MS-PS4-2 DCI: HS-PS1-6		
<b>data presentation</b>	BBK	<b>dependent variable</b>	SP: 3 SP: MS-PS2-2 SP: MS-PS3-4		
<b>daughter cell</b>	DCI: HS-LS1-4	<b>deposition</b>	4-ESS2-1 MS-ESS2-2 MS-ESS3-1 HS-ESS2-5 HS-ESS2-7		
<b>daylight</b>	1-ESS1-2				
<b>death</b>	BBK 3-LS1-1				
<b>debris</b>	BBK				
<b>decay</b>	DCI: HS-ESS1-5 DCI: HS-ESS1-6				
<b>decay rate</b>	BBK				
<b>deceleration</b>	BBK				
<b>decode</b>	DCI: 4-PS4-3				
<b>decompose</b>	5-LS2-1				



<b>design (noun) (cont'd)</b>	SP: HS-ESS1-3 SP: HS-ESS1-6 SP: HS-ESS2-5 SP: HS-ESS3-1 SP: HS-ESS3-2 SP: HS-ESS3-4 SP: HE-ETS1-2 SP: HE-ETS1-3 SP: HS-LS1-1 SP: HS-LS1-3 SP: HS-LS1-6 SP: HS-LS2-3 SP: HS-LS2-7 SP: HS-LS4-1 SP: HS-LS4-2 SP: HS-LS4-4 SP: HS-PS1-2 SP: HS-PS1-3 SP: HS-PS1-5 SP: HS-PS1-6 SP: HS-PS2-3 SP: HS-PS2-5 SP: HS-PS2-6 SP: HS-PS3-3 SP: HS-PS3-4 SP: HS-PS4-2 SP: HS-PS4-4 SP: HS-PS4-5	<b>design problem</b>	3-5-ETS1-1 3-PS2-4 MS-ETS1-1 SP: 3-5-ETS1-2 SP: 3-LS3-2 SP: 3-LS4-2 SP: 4-ESS1-1 SP: 4-ESS3-2 SP: 4-PS3-1 SP: 4-PS3-4 SP: 4-PS4-3 SP: 5-ESS3-1 SP: MS-ETS1-1 SP: HS-ETS1-1 SP: HS-LS3-1 SP: HS-PS1-5 SP: HS-PS2-3 SP: HS-PS4-2	<b>design solution</b>	SP: 3-PS2-1 SP: 3-PS2-2 SP: 4-ESS2-1 SP: 4-ESS3-2 SP: 4-LS1-2 SP: 4-PS3-2 SP: 4-PS4-1 SP: 4-PS4-2 SP: 4-PS4-3 SP: 5-ESS2-1 SP: 5-ESS2-2 SP: 5-LS2-1 SP: 5-PS1-1 SP: 5-PS1-2 SP: 5-PS1-3 SP: 5-PS1-4 SP: 5-PS3-1 SP: MS-ESS2-5 SP: MS-ETS1-2 SP: MS-LS2-5 SP: MS-LS4-6 SP: MS-PS2-2 SP: MS-PS2-5 SP: MS-PS3-4 SP: MS-PS4-1 SP: HS-ESS2-2 SP: HS-ESS3-2 SP: HS-ESS3-6 SP: HS-ETS1-4 SP: HS-LS2-1 SP: HS-LS2-2 SP: HS-LS2-4 SP: HS-PS2-1 SP: HS-PS4-1
	<b>design process</b>		MS-ESS3-3 SP: 7 CC: 3-PS2-4 DCI: 3-5-ETS1-2 DCI: HS-ETS1-4 DCI: HS-LS4-6		<b>design solution</b>
			K-PS2-2 3-ESS3-1 MS-ETS1-2 MS-ETS1-3 MS-LS2-5 HS-ESS3-2 HS-ESS3-4 SP: K-2-ETS1-2 SP: K-ESS3-1 SP: K-PS2-1 SP: K-PS3-1 SP: 1-ESS1-2 SP: 1-PS4-1 SP: 1-PS4-3 SP: 2-ESS2-2 SP: 2-LS2-1 SP: 2-LS2-2 SP: 2-LS4-1 SP: 2-PS1-1 SP: 3-5-ETS1-3 SP: 3-LS1-1		

<b>design system</b>	SP: MS-ESS1-1 SP: MS-ESS1-2 SP: MS-ESS2-1 SP: MS-ESS2-4 SP: MS-ESS2-6 SP: MS-ETS1-4 SP: MS-LS1-2 SP: MS-LS1-7 SP: MS-LS2-3 SP: MS-LS3-1 SP: MS-LS3-2 SP: MS-PS1-1 SP: MS-PS1-4 SP: MS-PS1-5 SP: MS-PS3-2 SP: MS-PS4-2	<b>designed world</b>	SP: MS-LS1-4 SP: MS-LS2-4 SP: MS-LS2-5 SP: MS-PS2-4 SP: MS-PS3-5 SP: HS-LS1-2 SP: HS-ESS1-1 SP: HS-ESS1-5 SP: HS-ESS2-1 SP: HS-ESS2-3 SP: HS-ESS2-4 SP: HS-ESS2-6 SP: HS-ESS2-7 SP: HS-ESS3-2 SP: HS-LS1-4 SP: HS-LS1-5 SP: HS-LS1-7 SP: HS-LS2-5 SP: HS-LS2-8 SP: HS-LS3-2 SP: HS-LS4-5 SP: HS-PS1-1 SP: HS-PS1-4 SP: HS-PS1-8 SP: HS-PS3-2 SP: HS-PS3-5 SP: HS-PS4-3	<b>development</b>	K-2-ETS1-1 MS-ESS3-2 MS-ESS3-3 MS-LS4-3 HS-ESS3-3 HS-ESS3-4 HS-LS1-3 HS-LS4-1 SP: 5 CC: MS-ESS1-3 CC: MS-LS1-1 CC: MS-LS4-5 CC: MS-PS1-3 CC: HS-ESS1-2 CC: HS-ESS1-4 CC: HS-ESS2-3 CC: HS-PS4-5 DCI: MS-LS4-3 DCI: HS-ESS3-1 SP: K-2-ETS1-1 SP: 3-5-ETS1-1 SP: 3-PS2-4 SP: MS-ETS1-1 SP: HS-ESS1-3 SP: HS-ESS1-6 SP: HS-LS4-1 SP: HS-PS2-6 SP: HS-PS4-5
<b>design task</b>	DCI: MS-ETS1-1 DCI: MS-PS3-3				
<b>designed</b>	HS-PS2-6 CC: K-2-ETS1-2 CC: 1-LS1-1 CC: 2-LS2-2 CC: HS-ESS2-5 SP: HS-ESS3-3 SP: HS-LS4-6 SP: HS-PS3-1				
<b>designed world</b>	CC: K-ESS2-2 CC: K-ESS3-1 CC: K-LS1-1 CC: 2-PS1-1 SP: K-2-ETS1-1 SP: K-ESS2-2 SP: K-ESS3-2 SP: 2-PS1-4 SP: 3-ESS3-1 SP: 3-LS2-1 SP: 3-LS4-3 SP: 3-LS4-4 SP: 4-LS1-1 SP: 5-ESS1-1 SP: 5-LS1-1 SP: 5-PS2-1 SP: MS-ESS3-4 SP: MS-ETS1-2 SP: MS-LS1-3	<b>destabilize</b>	CC: HS-ESS2-2 CC: HS-ESS3-4 CC: HS-LS1-3		
		<b>destruction</b>	DCI: HS-LS2-7 DCI: HS-LS4-6		
		<b>destructive</b>	HS-ESS2-1		
		<b>detect</b>	1-LS1-1 DCI: 5-PS1-1		
		<b>determinant</b>	DCI: MS-ESS2-5		
		<b>detrimental change</b>	BBK		

<b>device</b>	1-PS4-4
	3-PS2-4
	4-PS3-4
	MS-PS1-6
	MS-PS2-3
	MS-PS3-3
	MS-PS4-3
	HS-PS2-3
	HS-PS3-3
	HS-PS4-5
	DCI: 1-PS4-4
	DCI: 4-PS4-3
	DCI: HS-PS4-5
	SP: K-PS3-2
	SP: 1-LS1-1
	SP: 1-PS4-4
	SP: HS-ESS3-3
SP: HS-LS4-6	
SP: HS-PS3-1	
<b>diagram</b>	4-PS4-1
	5-PS3-1
	MS-ESS2-5
	MS-ESS2-6
	MS-LS3-2
	MS-LS4-3
	MS-PS1-4
	MS-PS3-2
	HS-LS1-5
	HS-PS1-4
	HS-PS1-8
	HS-PS3-2
	HS-PS3-5
	SP: K-2-ETS1-2
	SP: K-ESS3-1
	SP: 2-ESS2-2
	SP: 2-LS2-2
<b>diet</b>	DCI: 3-LS3-2
<b>differentiation</b>	HS-LS1-4 DCI: HS-LS1-4
<b>difficulty</b>	DCI: 3-5-ETS1-3
<b>diffraction</b>	HS-PS4-3
<b>digestive system</b>	BBK MS-LS1-3

<b>digital</b>	MS-ESS2-6	
	MS-PS1-5	
	MS-PS2-4	
	HS-PS4-2	
	SP: 3-ESS2-1	
	SP: 3-LS3-1	
	SP: 3-LS4-1	
	SP: 4-ESS2-2	
	SP: 5-ESS1-2	
	SP: HS-LS3-3	
SP: HS-LS4-3		
<b>digitize</b>	MS-PS4-3 DCI: 4-PS4-3 DCI: MS-PS4-3 DCI: HS-PS4-2 DCI: HS-PS4-5	
	<b>dike</b>	2-ESS2-1
	<b>dinosaur</b>	BBK
<b>diorama</b>	SP: K-2-ETS1-2 SP: K-ESS3-1 SP: 2-ESS2-2 SP: 2-LS2-2	
	<b>direction of a force</b>	BBK
	<b>direction of motion</b>	BBK
<b>discovery</b>	MS-LS4-5 CC: 3-PS2-4 CC: MS-ESS1-3 CC: MS-LS1-1 CC: MS-LS4-5 CC: MS-PS1-3 DCI: HS-ESS3-6	
	<b>disease</b>	BBK DCI: HS-LS2-1 DCI: HS-LS2-2
	<b>disk</b>	DCI: MS-ESS1-2
	<b>disperse</b>	2-LS2-2

<b>display</b>	3-ESS2-1 5-ESS1-2 MS-LS4-3 MS-PS2-4 MS-PS3-1 SP: 3-ESS2-1 SP: 5-ESS1-2 SP: MS-LS4-3 SP: MS-PS3-1 SP: MS-PS4-3	
	<b>disruption</b>	DCI: MS-LS2-4
<b>dissolve</b>	BBK 5-PS1-1 5-PS1-2 MS-PS1-6 DCI: HS-ESS2-5	
	<b>distinct</b>	DCI: MS-LS3-1 DCI: HS-LS4-5 DCI: HS-LS4-6
<b>distribution</b>	3-LS4-1 3-LS4-4 5-ESS2-2 MS-ESS2-3 MS-ESS2-6 MS-ESS3-1 HS-ESS2-4 HS-LS3-3 HS-LS4-2 HS-LS4-3 HS-LS4-5 HS-PS3-4 DCI: MS-LS4-6 DCI: HS-ESS2-1 DCI: HS-ESS2-4 DCI: HS-LS3-2 DCI: HS-LS3-3 DCI: HS-LS4-5 DCI: HS-LS4-6 DCI: HS-PS3-4	
	<b>disturb</b>	CC: MS-ESS3-5 DCI: 4-PS4-1
	<b>disturbance</b>	DCI: HS-LS2-2 DCI: HS-LS2-6
	<b>diverge</b>	DCI: HS-LS4-5 DCI: HS-LS4-6

<b>diverse</b>	3-LS1-1 DCI: 3-LS1-1 SP: HS-ESS3-5
<b>diversity</b>	MS-LS4-1 HS-ESS3-4 DCI: MS-LS4-1
<b>diversity of life</b>	BBK 2-LS4-1
<b>DNA</b>	HS-LS1-1 HS-LS3-1 DCI: HS-LS1-1 DCI: HS-LS3-1
<b>DNA molecule</b>	BBK
<b>DNA replication</b>	DCI: HS-LS3-2
<b>DNA sequence</b>	HS-LS4-1 DCI: HS-LS4-1
<b>DNA structure</b>	BBK
<b>DNA subunit</b>	BBK
<b>dominant trait</b>	BBK
<b>dominate</b>	DCI: HS-LS4-3 DCI: HS-LS4-4
<b>Doppler effect</b>	BBK
<b>drag</b>	BBK
<b>dramatization</b>	SP: K-2-ETS1-2 SP: K-ESS3-1 SP: 2-ESS2-2 SP: 2-LS2-2
<b>drought</b>	BBK MS-ESS3-2 MS-LS1-5 HS-ESS3-1 HS-LS4-5
<b>durable</b>	HS-PS2-6 SP: 3 SP: HS-LS2-2 SP: HS-LS2-3
<b>dynamic (noun)</b>	DCI: HS-ESS2-5
<b>dynamic (adjective)</b>	HS-ESS2-7 DCI: MS-LS2-4 DCI: HS-ESS2-1 DCI: HS-ESS2-2 DCI: HS-ESS2-7 DCI: HS-PS1-6

<b>Earth</b>	2-ESS1-1
	2-ESS2-3
	4-ESS2-2
	4-ESS3-2
	5-ESS1-1
	5-ESS1-2
	5-ESS2-2
	5-ESS3-1
	5-LS2-1
	5-PS2-1
	MS-ESS1-2
	MS-ESS1-3
	MS-ESS2-1
	MS-ESS2-6
	MS-ESS3-1
	MS-LS4-1
	MS-PS3-2
	HS-ESS1-1
	HS-ESS1-6
	HS-ESS2-1
	HS-ESS2-3
	HS-ESS2-7
	HS-ESS3-5
	HS-ESS3-6
	HS-PS4-1
	DCI: 3-LS4-1
	DCI: 4-ESS1-1
	DCI: 5-ESS1-1
	DCI: 5-ESS1-2
	DCI: 5-ESS2-2
DCI: 5-ESS3-1	
DCI: 5-PS2-1	
DCI: MS-ESS1-1	
DCI: MS-ESS1-2	
DCI: MS-ESS1-3	
DCI: MS-ESS1-4	
DCI: MS-ESS2-1	
DCI: MS-ESS2-3	
DCI: MS-ESS3-1	
DCI: MS-ESS3-3	
DCI: MS-ESS3-4	
DCI: MS-ESS3-5	
DCI: MS-LS2-5	
DCI: MS-LS4-1	
DCI: MS-PS2-4	

<b>Earth</b>	DCI: HS-ESS1-1	
	DCI: HS-ESS1-2	
	DCI: HS-ESS1-3	
	DCI: HS-ESS1-6	
	DCI: HS-ESS2-1	
	DCI: HS-ESS2-2	
	DCI: HS-ESS2-3	
	DCI: HS-ESS2-4	
	DCI: HS-ESS2-5	
	DCI: HS-LS2-7	
DCI: HS-LS4-6		
<b>Earth force</b>	DCI: 4-ESS1-1	
<b>Earth materials</b>	BBK	
<b>Earth system</b>	BBK HS-ESS2-2	
<b>earthquake</b>	BBK 2-ESS1-1 4-ESS2-2 4-ESS3-2 MS-ESS2-2 MS-ESS3-2 HS-ESS3-1 DCI: 4-ESS1-1 DCI: 4-ESS2-2 DCI: 4-ESS3-2	
	<b>Earth's age</b>	BBK
	<b>Earth's atmosphere</b>	BBK
	<b>Earth's axis</b>	BBK DCI: MS-ESS1-1
	<b>Earth's climate</b>	BBK
	<b>Earth's crust</b>	BBK DCI: HS-ESS2-1 DCI: HS-ESS2-3
<b>Earth's elements</b>	BBK	
<b>Earth's external energy sources</b>	BBK	
<b>Earth's formation</b>	BBK	
<b>Earth's gravity</b>	BBK	
<b>Earth's internal energy sources</b>	BBK	
<b>Earth's layers</b>	BBK HS-ESS2-3	

<b>Earth's orbit</b>	BBK HS-ESS2-4 DCI: HS-ESS2-4
<b>Earth's rotation</b>	BBK
<b>Earth's surface</b>	BBK K-PS3-1 MS-ESS2-2 MS-ESS2-4 MS-ESS3-4 HS-ESS2-2 DCI: K-PS3-1 DCI: K-PS3-2 DCI: 5-ESS2-1 DCI: 5-PS2-1 DCI: HS-ESS1-5
<b>Earth's temperature</b>	BBK DCI: MS-ESS3-5
<b>Earth-sun-moon system</b>	MS-ESS1-1
<b>eclipse</b>	BBK MS-ESS1-1 DCI: MS-ESS1-1
<b>ecological role</b>	BBK
<b>economic</b>	MS-LS2-5 CC: MS-ESS3-2 CC: MS-ESS3-3 CC: MS-ETS1-1 CC: MS-LS2-5 CC: MS-PS1-3 CC: MS-PS2-1 DCI: HS-ESS3-2 SP: HS-ESS3-2
<b>economical</b>	DCI: HS-ETS1-4 DCI: HS-LS4-6

<b>ecosystem</b>	BBK 5-ESS2-1 5-LS2-1 MS-LS2-1 MS-LS2-2 MS-LS2-3 MS-LS2-4 MS-LS2-5 HS-LS2-1 HS-LS2-2 HS-LS2-4 HS-LS2-6 HS-LS4-4 DCI: 5-ESS2-1 DCI: 5-LS2-1 DCI: MS-LS2-1 DCI: MS-LS2-2 DCI: MS-LS2-3 DCI: MS-LS2-4 DCI: MS-LS2-5 DCI: HS-ESS3-4 DCI: HS-LS2-1 DCI: HS-LS2-2 DCI: HS-LS2-4 DCI: HS-LS2-6 DCI: HS-LS2-7 DCI: HS-LS4-6
<b>efficient</b>	SP: 1 SP: 3 DCI: HS-ETS1-4 DCI: HS-LS4-6
<b>effort</b>	HS-ESS3-4
<b>egg</b>	BBK 2-PS1-4 DCI: HS-LS1-4
<b>egg cell</b>	BBK
<b>elastic</b>	HS-LS1-2
<b>elasticity</b>	BBK
<b>electric</b>	3-PS2-3 MS-PS2-3 DCI: 3-PS2-3 DCI: 3-PS2-4
<b>electric circuit</b>	BBK 4-PS3-4

<b>electric current</b>	BBK 4-PS3-2 HS-PS2-5 DCI: 4-PS3-2 DCI: 4-PS3-3 DCI: 4-PS3-4 DCI: HS-PS2-4(b) DCI: HS-PS2-5
<b>electric field</b>	HS-PS2-4 HS-PS3-1 HS-PS3-5 DCI: HS-PS2-4(b) DCI: HS-PS2-5 DCI: HS-PS4-3
<b>electric force</b>	BBK 3-PS2-3 MS-PS2-3 HS-PS1-3 DCI: MS-PS2-3 DCI: MS-PS2-5 DCI: HS-PS1-3 DCI: HS-PS2-6
<b>electric motor</b>	BBK MS-PS2-3
<b>electric potential</b>	BBK
<b>electrical</b>	4-PS3-4 HS-PS2-6 DCI: HS-PS2-5
<b>electrical charge</b>	BBK MS-PS3-2 DCI: HS-PS1-1 DCI: HS-PS1-3 DCI: HS-PS2-4(b) DCI: HS-PS2-5 DCI: HS-PS2-6
<b>electrical conductivity</b>	5-PS1-3
<b>electrical energy</b>	BBK DCI: 4-PS3-2 DCI: 4-PS3-4 DCI: HS-PS2-5
<b>electrically charged</b>	3-PS2-3 MS-PS2-5 HS-PS3-2

<b>electrically neutral</b>	BBK
<b>electricity</b>	BBK HS-PS4-5
<b>electromagnet</b>	3-PS2-3 MS-PS2-3
<b>electromagnetic</b>	DCI: MS-LS1-8 DCI: MS-PS2-3
<b>electromagnetic energy</b>	DCI: HS-ESS1-2 DCI: HS-ESS1-3
<b>electromagnetic field</b>	BBK
<b>electromagnetic force</b>	BBK
<b>electromagnetic radiation</b>	BBK HS-ESS1-2 HS-PS4-1 HS-PS4-3 HS-PS4-4 DCI: HS-ESS2-2 DCI: HS-ESS2-4 DCI: HS-PS4-3 DCI: HS-PS4-4
<b>electromagnetic spectrum</b>	BBK
<b>electromagnetic wave</b>	BBK
<b>electron</b>	BBK MS-PS1-1 HS-PS1-1 DCI: HS-PS1-1 DCI: HS-PS1-2 DCI: HS-PS4-5
<b>electron configuration</b>	BBK
<b>electron sharing</b>	BBK
<b>electron state</b>	HS-PS1-2
<b>electron transfer</b>	BBK
<b>electrostatic force</b>	HS-PS2-4 DCI: HS-PS2-4

<b>element</b>	HS-ESS1-3 HS-LS1-6 HS-PS1-1 DCI: 3-5-ETS1-3 DCI: HS-ESS1-1 DCI: HS-ESS1-2 DCI: HS-ESS1-3 DCI: HS-LS1-6 DCI: HS-LS1-7 DCI: HS-LS2-4 DCI: HS-PS1-1 DCI: HS-PS1-2 DCI: HS-PS1-7
<b>element stability</b>	BBK
<b>elementary particle</b>	BBK
<b>elements of matter</b>	BBK
<b>elliptical orbit</b>	BBK
<b>embryo</b>	MS-LS4-3
<b>embryo formation</b>	BBK
<b>embryological</b>	MS-LS4-3 HS-LS4-1 DCI: MS-LS4-3 DCI: HS-LS4-1
<b>emergence</b>	HS-LS4-5 DCI: HS-LS4-5 DCI: HS-LS4-6
<b>emergence of life forms</b>	BBK
<b>emit</b>	DCI: HS-ESS1-2 DCI: HS-PS4-5
<b>encode</b>	MS-PS4-3 DCI: MS-PS4-3
<b>endangered species</b>	HS-LS4-6
<b>endothermic reaction</b>	BBK
<b>energy flow</b>	DCI: MS-LS2-3 DCI: MS-PS1-6 DCI: MS-PS3-3
<b>energy level</b>	HS-PS1-1
<b>energy requirements of living systems</b>	BBK
<b>energy source</b>	BBK

<b>energy transfer</b>	BBK MS-PS3-3 HS-ESS1-1 DCI: MS-PS3-4 DCI: HS-LS1-7
<b>engineer (noun)</b>	SP: 1 SP: 3 SP: 4 SP: 5 SP: 7 SP: 8 DCI: MS-ESS3-3 DCI: MS-ESS3-4
<b>engineering</b>	BBK HS-ETS1-2 HS-PS2-3 CC: 3-LS4-3 CC: 4-ESS3-1 CC: 4-PS4-3 CC: HS-ESS1-2 CC: HS-ESS1-4 CC: HS-ESS2-3 CC: HS-ESS3-2 CC: HS-ESS3-4 CC: HS-LS3-3 CC: HS-PS3-3 CC: HS-PS4-2 CC: HS-PS4-5 DCI: K-2-ETS1-1 DCI: K-PS2-2 DCI: MS-ESS3-5 DCI: HS-ETS1-1 DCI: HS-ETS1-4
<b>Enrico Fermi</b>	BBK
<b>entropy</b>	BBK
<b>environment</b>	BBK K-ESS2-2 K-ESS3-3 3-LS3-2 3-LS4-1 3-LS4-4 4-ESS3-1 5-ESS3-1 5-LS2-1 MS-ESS3-3

<b>environment (cont'd)</b>	MS-ETS1-1
	MS-LS4-4
	MS-PS1-6
	MS-PS3-4
	HS-LS2-3
	HS-LS2-7
	HS-LS4-2
	HS-LS4-5
	CC: MS-ESS3-1
	CC: MS-ESS3-4
	CC: MS-ETS1-1
	CC: HS-ESS2-2
	CC: HS-ESS3-3
	CC: HS-ETS1-1
	CC: HS-ETS1-3
	DCI: K-ESS2-2
	DCI: 3-LS3-2
	DCI: 3-LS4-1
	DCI: 3-LS4-3
	DCI: 3-LS4-4
	DCI: 4-ESS3-1
	DCI: 5-ESS3-1
	DCI: 5-LS2-1
	DCI: MS-ESS3-3
	DCI: MS-PS3-4
	DCI: MS-LS2-2
	DCI: MS-LS2-3
	DCI: MS-LS4-6
DCI: HS-LS1-7	
DCI: HS-PS3-3	
DCI: HS-PS3-4	
SP: MS-PS2-3	
DCI: HS-LS1-7	
DCI: HS-LS2-1	
DCI: HS-LS2-2	
DCI: HS-LS2-7	
DCI: HS-LS4-2	
DCI: HS-LS4-3	
DCI: HS-LS4-4	
DCI: HS-LS4-5	

<b>environmental</b>	3-LS4-4	
	4-ESS3-1	
	MS-ESS3-3	
	MS-LS1-5	
	HS-ETS1-3	
	HS-LS2-7	
	HS-LS3-2	
	HS-LS3-3	
	HS-LS4-5	
	DCI: MS-LS2-1	
	DCI: MS-LS4-6	
	DCI: HS-ESS3-2	
	DCI: HS-ESS3-4	
	DCI: HS-ETS1-3	
	DCI: HS-LS3-2	
	DCI: HS-LS3-3	
	DCI: HS-LS4-6	
	SP: HS-ESS3-2	
	<b>environmental changes</b>	BBK
	<b>environmental conditions</b>	BBK
	<b>enzyme</b>	BBK
<b>equal and opposite force</b>	BBK	
<b>equilibrium</b>	HS-PS1-6	
<b>equilibrium of ecosystems</b>	BBK	
<b>equipment</b>	BBK 1-LS1-1	
<b>Ernest Rutherford</b>	BBK	
<b>erosion</b>	BBK 2-ESS1-1 4-ESS2-1 MS-LS2-5 HS-ESS2-1 HS-ESS2-2 HS-ESS2-5 HS-ESS2-7 HS-ESS3-1 DCI: MS-ESS2-2 DCI: HS-ESS1-6	
	<b>erosion resistance</b>	BBK

<b>essential</b>	HS-LS1-1 DCI: 3-LS1-1 DCI: HS-LS1-1 DCI: HS-LS2-7 DCI: HS-LS4-6 DCI: HS-PS4-5	
	<b>ethical</b>	CC: HS-ESS3-2 SP: HS-ESS3-2 SP: HS-LS1-3
	<b>evaporate</b>	5-PS1-1
	<b>evaporation</b>	BBK DCI: 5-PS1-3 DCI: MS-ESS2-4
<b>everyday life</b>	CC: 3-ESS3-1 CC: 4-PS3-4 DCI: 4-PS3-4 DCI: 5-ESS3-1	
<b>evidence for the expansion of the universe</b>	BBK	
<b>evidence for the unity among organisms</b>	BBK	
<b>evidence from sedimentary rock</b>	BBK	
<b>evolution</b>	MS-ESS1-4 HS-ESS2-7 HS-LS4-1 HS-LS4-2 HS-LS4-4 DCI: HS-ESS2-7 DCI: HS-LS4-1 DCI: HS-LS4-2 DCI: HS-LS4-5	
	<b>evolutionary</b>	MS-LS4-2 DCI: MS-LS4-2
	<b>evolve</b>	DCI: HS-LS2-8 DCI: HS-PS3-4
	<b>exact</b>	1-LS3-1 DCI: 1-LS3-1
<b>excitatory molecule</b>	BBK	
<b>excretory system</b>	BBK MS-LS1-3	

<b>exert</b>	3-PS2-3 5-PS2-1 MS-PS2-5 DCI: 3-PS2-1 DCI: MS-ESS2-6 DCI: MS-PS2-1 DCI: MS-PS3-2	<b>exponential</b>	CC: HS-ESS1-4 CC: HS-LS3-3 DCI: HS-ESS1-5 DCI: HS-ESS1-6 SP: HS-ESS1-4 SP: HS-ESS3-3 SP: HS-ESS3-6 SP: HS-ETS1-4 SP: HS-LS2-1 SP: HS-LS2-2 SP: HS-LS2-4 SP: HS-LS4-6 SP: HS-PS1-7 SP: HS-PS2-2 SP: HS-PS2-4(a) SP: HS-PS2-4(b) SP: HS-PS3-1 SP: HS-PS4-1	<b>extinction</b>	BBK MS-ESS1-4 MS-LS4-1 HS-LS4-5 DCI: MS-ESS3-3 DCI: MS-LS4-1 DCI: HS-LS2-7 DCI: HS-LS4-5 DCI: HS-LS4-6										
<b>exist</b>	3-LS3-1 MS-PS2-5 CC: 3-LS4-1 CC: 5-ESS1-1 CC: 5-PS1-1 DCI: 2-ESS2-3 DCI: 2-LS4-1 DCI: 2-PS1-1 DCI: 5-PS1-1 DCI: HS-ESS2-7		<b>expression</b>		HS-LS3-3 HS-PS3-1 DCI: 4-PS3-4 DCI: HS-ESS2-3 DCI: HS-LS3-2 DCI: HS-LS3-3 DCI: HS-LS4-2 DCI: HS-LS4-3 DCI: HS-PS3-1	<b>extract</b>	HS-ESS3-3 DCI: HS-ESS3-2								
<b>existence</b>	MS-LS4-1 DCI: 3-LS1-1 DCI: MS-LS4-1 SP: HS-LS2-2 SP: HS-LS2-3				<b>extended structure</b>	MS-PS1-1 DCI: MS-PS1-1	<b>extreme</b>	HS-LS2-6 DCI: HS-LS2-2 DCI: HS-LS2-6							
<b>existing</b>	CC: 3-5-ETS1-2 CC: 3-ESS3-1 CC: 4-ESS3-2 CC: 4-PS3-4					<b>extent</b>	HS-ESS2-2 DCI: 3-ESS2-2 DCI: HS-ETS1-1 DCI: HS-PS2-3 DCI: HS-PS3-3 SP: HS-ESS1-6	<b>facility</b>	SP: MS-PS2-3						
<b>exothermic reaction</b>	BBK						<b>external</b>	1-LS1-1 1-PS4-2 4-LS1-1 DCI: 1-LS1-1 DCI: 4-LS1-1 DCI: HS-LS1-3	<b>Fahrenheit</b>	BBK					
<b>exploration</b>	CC: MS-PS4-3							<b>external cue</b>	BBK	<b>failure point</b>	3-5-ETS1-3 DCI: 3-5-ETS1-3				
									<b>external feature</b>	BBK	<b>fall [autumn]</b>	1-ESS1-2			
										<b>external feature</b>	BBK	<b>feature</b>	1-LS3-1 4-ESS2-2 MS-ESS1-3 MS-ESS2-2 HS-ESS2-1 SP: 4 SP: 6 DCI: 3-5-ETS1-1 DCI: 4-ESS2-2 DCI: 4-PS3-4 DCI: MS-LS1-4 DCI: HS-ESS1-4 DCI: HS-ESS2-1 DCI: HS-PS4-3 SP: 2-ESS2-3		
											<b>extinct</b>		3-LS4-1 DCI: HS-LS4-5	<b>feedback effect</b>	DCI: HS-ESS2-1 DCI: HS-ESS2-2
													<b>extinct</b>	3-LS4-1 DCI: HS-LS4-5	<b>feedback mechanism</b>
		<b>extinct</b>		3-LS4-1 DCI: HS-LS4-5										<b>fertile</b>	HS-ESS3-1
			<b>extinct</b>	3-LS4-1 DCI: HS-LS4-5										<b>fertilize</b>	DCI: HS-LS1-4
				<b>extinct</b>	3-LS4-1 DCI: HS-LS4-5									<b>fertilizer</b>	MS-LS1-5 HS-LS4-5
					<b>extinct</b>	3-LS4-1 DCI: HS-LS4-5									
						<b>extinct</b>	3-LS4-1 DCI: HS-LS4-5								
							<b>extinct</b>	3-LS4-1 DCI: HS-LS4-5							
								<b>extinct</b>	3-LS4-1 DCI: HS-LS4-5						
									<b>extinct</b>	3-LS4-1 DCI: HS-LS4-5					
										<b>extinct</b>	3-LS4-1 DCI: HS-LS4-5				
											<b>extinct</b>	3-LS4-1 DCI: HS-LS4-5			
		<b>extinct</b>										3-LS4-1 DCI: HS-LS4-5			
			<b>extinct</b>									3-LS4-1 DCI: HS-LS4-5			



<b>field</b>	MS-ESS1-2 MS-PS2-5 SP: 3 SP: 7 CC: MS-ESS1-3 CC: MS-LS1-1 CC: MS-LS4-5 CC: MS-PS1-3 CC: MS-PS3-5 CC: HS-ESS1-2 CC: HS-LS1-7 CC: HS-LS2-4 CC: HS-PS3-2 DCI: MS-PS2-5 DCI: HS-PS2-4(a) DCI: HS-PS2-4(b) DCI: HS-PS2-5 DCI: HS-PS3-2 DCI: HS-PS3-5 DCI: HS-PS4-3	
	<b>filial generation</b>	BBK
	<b>filtering</b>	BBK
	<b>finite</b>	DCI: HS-LS2-1 DCI: HS-LS2-2
	<b>fissile</b>	4-ESS3-1
	<b>fission</b>	HS-PS1-8 DCI: HS-PS1-8
	<b>flexibility</b>	2-PS1-1 2-PS1-2
	<b>flexible</b>	HS-PS2-6
	<b>flock</b>	HS-LS2-8
	<b>flood</b>	3-ESS3-1 MS-ESS3-2 HS-ESS3-1 HS-LS2-6 HS-LS4-5

<b>flow (noun)</b>	4-ESS2-1 MS-ESS2-1 MS-LS1-6 MS-LS2-3 HS-ESS2-4 HS-LS2-3 HS-LS2-4 DCI: HS-ESS2-3 DCI: HS-LS1-5 DCI: HS-LS1-6 DCI: HS-LS1-7		
	<b>flow (verb)</b>	MS-ESS2-5 HS-LS2-4 HS-LS2-8 HS-PS3-1 CC: MS-ESS2-6 CC: MS-LS2-3 CC: MS-PS2-1 CC: MS-PS2-4 CC: MS-PS3-2 CC: MS-PS3-3 CC: HS-ETS1-4 CC: HS-LS1-2 CC: HS-LS1-4 CC: HS-LS2-5 CC: HS-PS1-4 CC: HS-PS3-3 CC: HS-PS4-3 DCI: HS-LS1-6 DCI: HS-LS1-7 DCI: HS-PS3-4 SP: HS-PS1-4	
		<b>flow chart</b>	5-PS3-1
		<b>flow of matter</b>	BBK
		<b>flower</b>	MS-LS1-4 DCI: 1-LS1-1
		<b>fluctuation</b>	DCI: HS-LS2-2 DCI: HS-LS2-6
		<b>fluid resistance</b>	BBK

<b>food</b>	BBK K-ESS2-2 K-LS1-1 3-LS3-2 3-LS4-4 5-LS2-1 5-PS3-1 MS-ESS3-4 MS-LS1-5 MS-LS1-7 MS-PS1-3 HS-LS1-7 DCI: K-LS1-1 DCI: 1-LS1-1 DCI: 3-LS2-1 DCI: 5-LS2-1 DCI: 5-PS3-1 DCI: MS-LS1-6 DCI: MS-LS1-7 DCI: MS-LS2-1 DCI: MS-LS2-5 DCI: HS-ETS1-1 DCI: HS-LS1-7		
	<b>food chain</b>	BBK	
	<b>food oxidation</b>	BBK	
	<b>food web</b>	BBK DCI: 5-LS2-1 DCI: MS-LS2-3 DCI: HS-LS2-4	
		<b>foot pound</b>	BBK

<b>force</b>	3-PS2-1	<b>form (noun)</b>	K-ESS3-2	<b>fossil</b>	BBK		
	3-PS2-3		4-PS3-4		3-LS4-1		
	4-PS3-3		MS-PS1-5		4-ESS1-1		
	MS-ESS1-2		MS-PS3-5		MS-ESS1-4		
	MS-ESS2-4		HS-ESS1-1		MS-ESS2-3		
	MS-PS2-2		HS-ESS1-6		MS-LS4-1		
	MS-PS2-5		HS-ESS2-7		MS-LS4-2		
	HS-ESS2-1		HS-PS3-3		DCI: 3-LS4-1		
	HS-PS1-3		CC: MS-PS3-5		DCI: 4-ESS1-1		
	HS-PS2-3		DCI: 2-ESS2-3		DCI: MS-ESS2-3		
	HS-PS2-6		DCI: 4-PS3-4		DCI: MS-LS4-1		
	HS-PS3-5		DCI: 4-PS4-3				
	CC: MS-PS2-2		DCI: 5-PS1-3		<b>fossil evidence</b>	BBK	
	DCI: 3-PS2-1		DCI: MS-ESS2-4		<b>fossil fuel</b>	BBK	
	DCI: 3-PS2-3		DCI: HS-ESS3-2			4-ESS3-1	
DCI: 3-PS2-4	DCI: HS-LS1-1	MS-ESS3-5					
DCI: MS-PS2-1	DCI: MS-LS3-1	HS-ESS3-1	DCI: MS-ESS3-5				
DCI: MS-PS2-2	DCI: HS-PS3-1	<b>fossil record</b>	BBK				
DCI: MS-PS3-2	DCI: HS-PS3-2		MS-LS4-1				
	DCI: HS-PS3-3		DCI: MS-ESS1-4				
<b>force strength</b>	BBK	DCI: HS-PS3-4	DCI: MS-LS4-1				
<b>forecast</b>	K-ESS3-2	DCI: HS-PS4-2	DCI: MS-LS4-2				
	MS-ESS3-2	DCI: HS-PS4-5					
	HS-ESS3-5	SP: K-ESS3-3	<b>foundation</b>	HS-ESS2-6			
	DCI: K-ESS3-2		DCI: HS-ESS2-2	DCI: HS-ESS2-4			
DCI: MS-ESS3-2		<b>fracture zone</b>	MS-ESS2-3				
<b>forest fire</b>	MS-ESS3-2		<b>frame of reference</b>	MS-PS2-2			
<b>forested</b>	K-ESS3-1	<b>format</b>		DCI: HS-PS2-2			
			SP: HS-ESS1-3	<b>freeze</b>	BBK		
		SP: HS-LS4-1	2-PS1-4				
		SP: HS-PS2-6	4-ESS2-1				
		SP: HS-PS4-5	HS-ESS2-5	DCI: HS-ESS2-5			
	<b>formation</b>	MS-ESS1-4	<b>formation of polymers</b>	BBK			
		HS-ESS2-1		<b>forms of energy</b>	BBK		
		HS-ESS2-7			<b>forms of matter</b>	BBK	
		HS-PS1-6				<b>forms of water</b>	BBK
		DCI: MS-ESS2-2					BBK
DCI: HS-LS1-1							
DCI: HS-LS2-7							
DCI: HS-LS3-1							
<b>frequency</b>			MS-ESS3-2				
			HS-LS4-4				
			HS-PS4-1				
			HS-PS4-4				
			DCI: MS-PS4-1				
		DCI: MS-PS4-2					
		DCI: HS-ESS1-2					
		DCI: HS-PS4-1					
		DCI: HS-PS4-5					

<b>fresh water</b>	BBK 5-ESS2-2 HS-ESS3-1 DCI: 5-ESS2-2 DCI: MS-ESS3-1
<b>friction</b>	BBK
<b>frost</b>	HS-ESS2-5
<b>fruit</b>	DCI: 1-LS1-1
<b>fuel</b>	4-ESS3-1 MS-PS1-3 DCI: 4-ESS3-1

	2-LS2-2 MS-LS1-2 MS-LS1-3 MS-LS3-1 HS-LS1-1 HS-LS1-2 HS-PS2-1 HS-ESS1-3 CC: K-2-ETS1-2 CC: 1-LS1-1 CC: 2-LS2-2 CC: MS-PS1-3 CC: MS-PS4-2 CC: MS-PS4-3 CC: MS-LS1-2 CC: MS-LS3-1 CC: HS-ESS2-5 CC: HS-LS1-1 CC: HS-PS2-6 DCI: 3-LS2-1 DCI: 3-LS3-1 DCI: 4-LS1-1 DCI: MS-LS1-2 DCI: MS-LS1-3 DCI: MS-LS3-1 DCI: HS-LS1-1 DCI: HS-LS2-4 DCI: HS-LS3-1 SP: HS-PS1-7 SP: HS-PS3-1 SP: HS-PS4-1 SP: HS-LS2-1 SP: HS-LS3-3 SP: HS-LS4-3 SP: HS-LS4-6 SP: HS-ESS1-4 SP: HS-ESS3-3 SP: HS-ESS3-6 SP: HS-ETS1-4
<b>function (noun)</b>	
<b>function (verb)</b>	K-2-ETS1-2 4-LS1-1 CC: MS-LS3-1 DCI: 3-LS3-1
<b>functional</b>	DCI: HS-LS1-3

<b>fundamental unit of life</b>	BBK
<b>fungi</b>	BBK DCI: 5-LS2-1
<b>fusion</b>	HS-PS1-8 DCI: HS-PS1-8
<b>future motion</b>	3-PS2-2 DCI: 3-PS2-2
<b>galaxy</b>	BBK MS-ESS1-2 HS-ESS1-2 DCI: MS-ESS1-2 DCI: HS-ESS1-2
<b>Galileo</b>	BBK
<b>gamma ray</b>	BBK DCI: HS-PS4-4
<b>gas</b>	BBK MS-ESS3-5 MS-PS1-4 HS-ESS1-2 DCI: 5-LS2-1 DCI: 5-PS1-1 DCI: MS-ESS1-2 DCI: MS-PS1-4 DCI: HS-ESS1-2 DCI: HS-ESS3-6
<b>gases of the atmosphere</b>	BBK
<b>gene</b>	BBK MS-LS3-1 MS-LS3-2 HS-LS4-4 DCI: MS-LS3-1 DCI: MS-LS3-2 DCI: MS-LS4-5 DCI: HS-LS1-1 DCI: HS-LS3-1 DCI: HS-LS3-2
<b>gene encoding</b>	BBK
<b>gene expression</b>	BBK
<b>gene therapy</b>	MS-LS4-5
<b>general theory of relativity</b>	BBK

<b>generation</b>	HS-ESS2-5 DCI: MS-LS4-6 DCI: HS-LS4-3 DCI: HS-LS4-4	<b>geoengineering</b>	HS-ESS3-4	<b>glacial movement</b>	BBK
<b>generator</b>	BBK MS-PS2-3 HS-PS3-3	<b>geographic</b>	MS-ESS2-2 MS-ESS2-6 HS-ESS2-1 HS-LS4-4	<b>glacier</b>	BBK DCI: 5-ESS2-2 DCI: HS-ESS2-4
<b>genetic</b>	MS-LS1-5 MS-LS1-5 MS-LS3-1 MS-LS3-2 MS-LS4-4 MS-LS4-5 MS-LS3-2 HS-LS3-2 HS-LS3-3 HS-LS4-2 HS-LS4-6 DCI: MS-LS1-5 DCI: MS-LS3-1 DCI: MS-LS3-2 DCI: HS-LS1-1 DCI: HS-LS1-4 DCI: HS-LS2-8 DCI: HS-LS3-1 DCI: HS-LS3-2 DCI: HS-LS3-3 DCI: HS-LS4-1 DCI: HS-LS4-2 DCI: HS-LS4-3	<b>geography</b>	DCI: MS-ESS2-6	<b>global</b>	MS-ESS2-6 MS-ESS3-2 HS-ESS3-5 HS-ETS1-1 DCI: 4-ESS1-1 DCI: MS-ESS2-2 DCI: MS-ESS2-4 DCI: MS-ESS2-6 DCI: HS-ESS2-2 DCI: HS-ESS2-4 DCI: HS-ESS3-6 DCI: HS-ETS1-1
<b>genetic diversity</b>	BBK	<b>geologic</b>	MS-ESS1-4 DCI: MS-ESS3-1 DCI: MS-ESS3-2 DCI: HS-ESS1-5 DCI: HS-ESS2-1 DCI: HS-ESS3-1	<b>global climate change</b>	HS-ESS3-5 DCI: MS-ESS3-5 DCI: HS-ESS3-5
<b>genetic modification</b>	MS-LS4-5	<b>geologic evidence</b>	BBK	<b>global temperature</b>	MS-ESS3-5 HS-ESS2-2 HS-ESS3-4 DCI: HS-ESS3-6
<b>genetic mutation</b>	BBK	<b>geologic force</b>	BBK DCI: MS-ESS3-2	<b>global warming</b>	DCI: MS-ESS3-5
<b>genetic variation</b>	BBK MS-LS3-2 MS-LS4-4 HS-LS3-2 HS-LS4-2 HS-LS4-6 DCI: HS-LS3-2 DCI: HS-LS4-2	<b>geologic process</b>	DCI: MS-ESS3-1 DCI: HS-ESS1-6	<b>Golgi apparatus</b>	BBK
<b>geochemical cycle</b>	BBK	<b>geologic time</b>	BBK	<b>gradual</b>	MS-ESS2-2 CC: MS-ESS3-5 DCI: HS-ESS2-4 DCI: HS-ESS2-6 DCI: HS-ESS2-7
<b>geochemical reaction</b>	MS-ESS2-2	<b>geologic time scale</b>	DCI: MS-ESS1-4	<b>graduated cylinder</b>	BBK
		<b>geologic trap</b>	MS-ESS3-1	<b>graphite</b>	HS-PS1-3
		<b>geological</b>	DCI: HS-ESS2-4 DCI: HS-LS2-5	<b>grasp</b>	DCI: 1-LS1-1
		<b>geological dating</b>	BBK	<b>grass</b>	K-ESS3-1 2-ESS2-1 MS-LS1-5
		<b>geological shift</b>	BBK	<b>gravitational</b>	MS-PS2-4 HS-ESS1-4 DCI: MS-PS2-5 DCI: HS-ESS1-4 DCI: HS-ESS2-3
		<b>geologist</b>	DCI: HS-ESS2-3	<b>gravitational energy</b>	BBK
		<b>geopolitical</b>	DCI: HS-ESS3-2		
		<b>geoscience</b>	MS-ESS2-2 MS-ESS3-1 HS-ESS2-2 HS-ESS2-7 HS-ESS3-5		
		<b>geosphere</b>	5-ESS2-1 HS-ESS2-6 HS-ESS3-6 HS-LS2-5 DCI: 5-ESS2-1 DCI: HS-LS2-5		
		<b>germ theory</b>	BBK		
		<b>germination</b>	MS-LS1-4		
		<b>glacial</b>	HS-ESS2-2 HS-ESS2-4 HS-ESS3-5		

<b>gravitational field</b>	HS-PS2-4 DCI: HS-PS2-4 DCI: HS-PS2-5
<b>gravitational force</b>	BBK 5-PS2-1 HS-PS2-4 DCI: 5-PS2-1 DCI: MS-PS2-4 DCI: HS-PS2-4
<b>gravitational pull</b>	DCI: MS-ESS1-2 DCI: MS-ESS1-3
<b>gravity</b>	5-PS2-1 MS-ESS1-2 MS-ESS2-4 DCI: 4-ESS2-1 DCI: MS-ESS1-2 DCI: MS-ESS2-4
<b>greenhouse gas</b>	BBK HS-ESS2-2 DCI: MS-ESS3-5 DCI: HS-ESS3-6
<b>Gregor Mendel</b>	BBK
<b>groundwater</b>	BBK 5-ESS2-2 MS-ESS3-1 HS-ESS2-2 HS-ESS3-1
<b>group behavior</b>	HS-LS2-8 DCI: HS-LS2-8
<b>grow</b>	K-ESS3-1 1-LS1-1 2-LS2-1 3-LS3-2 MS-LS1-5 DCI: K-LS1-1 DCI: 2-LS1-1 DCI: MS-PS3-1 DCI: HS-LS1-4

<b>growth</b>	BBK 3-LS1-1 4-LS1-1 5-LS1-1 5-PS3-1 MS-LS1-4 MS-LS1-5 MS-LS1-7 MS-LS2-1 CC: HS-LS3-3 CC: HS-ESS1-4 DCI: 1-LS1-1 DCI: 4-LS1-1 DCI: 5-LS1-1 DCI: 5-PS3-1 DCI: MS-LS1-5 DCI: MS-LS1-7 DCI: MS-LS2-1 DCI: HS-LS2-4
<b>habit</b>	CC: MS-LS1-3
<b>habitat</b>	BBK 2-LS4-1 3-LS4-3 4-ESS3-1 HS-ESS2-7 DCI: 3-LS4-4 DCI: MS-ESS3-3 DCI: HS-LS2-2 DCI: HS-LS2-6 DCI: HS-LS2-7 DCI: HS-LS4-6
<b>Halley's comet</b>	BBK
<b>hardness</b>	2-PS1-1 2-PS1-2 5-PS1-3
<b>harmful</b>	MS-LS3-1 DCI: MS-LS3-1
<b>harvesting of resources</b>	BBK
<b>hazard</b>	3-ESS3-1 DCI: 3-ESS3-1 DCI: 4-ESS3-2

<b>health</b>	HS-ESS3-6 CC: MS-ESS3-1 CC: MS-ESS3-4 CC: MS-ETS1-1 DCI: 5-LS2-1 DCI: MS-LS2-5
<b>hear</b>	DCI: 1-LS1-1
<b>heart</b>	4-LS1-1
<b>heart rate</b>	HS-LS1-3
<b>heat (noun)</b>	BBK 4-PS3-2 4-PS3-4 MS-ESS2-6 DCI: 4-PS3-2 DCI: 4-PS3-3 DCI: MS-PS1-4 DCI: HS-ESS2-3 DCI: HS-PS4-4
<b>heat (verb)</b>	BBK 2-PS1-4 4-ESS2-1 5-PS1-2 MS-ESS2-6 MS-PS3-4 DCI: 2-PS1-4 DCI: 4-PS3-2 DCI: 4-PS3-3 DCI: MS-PS1-4
<b>ion</b>	BBK
<b>heat convection</b>	BBK
<b>heat emission</b>	BBK
<b>heat energy</b>	BBK
<b>heat radiation</b>	BBK
<b>heat retention</b>	BBK
<b>heat transfer</b>	BBK
<b>helium</b>	MS-PS1-4 HS-ESS1-2 DCI: HS-ESS1-2 DCI: HS-ESS1-3
<b>herbivore</b>	BBK
<b>herd</b>	MS-LS1-4 HS-LS2-8
<b>hereditary information</b>	BBK

<b>heritable</b>	HS-LS4-2 HS-LS4-3 DCI: HS-LS4-3 DCI: HS-LS4-4	<b>human</b>	K-ESS2-2 K-ESS3-1 K-ESS3-3 K-LS1-1 1-LS1-1 3-LS3-1 4-ESS3-2 MS-ESS3-1 MS-LS4-5 HS-ESS2-6 HS-ESS3-3 CC: K-ESS3-2 CC: K-LS1-1 CC: 1-PS4-4 CC: 2-PS1-1 CC: HS-ESS3-3 CC: HS-PS3-5 CC: HS-PS4-4 DCI: K-ESS3-1 DCI: 3-ESS3-1 DCI: 4-ESS3-1 DCI: 4-ESS3-2 DCI: 5-ESS2-1 DCI: 5-ESS3-1 DCI: MS-ESS3-1 DCI: MS-ESS3-5 DCI: MS-LS2-5 DCI: MS-LS4-5 DCI: HS-ESS3-1 DCI: HS-ESS3-3 DCI: HS-ESS3-5 DCI: HS-ESS3-6 DCI: HS-LS2-7 DCI: HS-LS4-5 DCI: HS-LS4-6	<b>human activity</b>	MS-ESS3-5 HS-ESS2-4 HS-ESS3-1 HS-ESS3-4 HS-ESS3-6 HS-LS2-7 HS-LS4-6 CC: MS-ESS3-1 CC: MS-ESS3-4 CC: MS-ETS1-1 DCI: MS-ESS3-3 DCI: MS-ESS3-5 DCI: HS-ESS2-4 DCI: HS-ESS2-6 DCI: HS-LS2-7 DCI: HS-LS4-6
<b>hierarchical</b>	HS-LS1-2 DCI: HS-LS1-2		<b>human behavior</b>	DCI: MS-ESS3-5	
<b>high pressure</b>	MS-ESS2-5 HS-ESS2-3		<b>human decision</b>	CC: HS-ESS3-2	
<b>high-tech</b>	DCI: 4-PS4-3		<b>human genetics</b>	BBK	
<b>historical</b>	HS-LS2-1 DCI: HS-ESS2-3 SP: HS-ESS1-5 SP: HS-ESS2-7 SP: HS-ESS3-2 SP: HS-LS2-6 SP: HS-LS2-8 SP: HS-LS3-2 SP: HS-LS4-5 SP: HS-PS4-3		<b>human impact</b>	K-ESS3-3 MS-ESS3-3 DCI: HS-ESS3-5	
<b>history</b>	MS-ESS1-4 HS-ESS1-6 DCI: 4-ESS1-1 DCI: MS-ESS2-2 DCI: MS-ESS3-2 DCI: MS-LS4-2 DCI: HS-ESS1-5 DCI: HS-ESS1-6 DCI: HS-ESS2-1 DCI: HS-ESS3-1		<b>human modification of ecosystems</b>	BBK	
<b>history of life</b>	MS-LS4-1 DCI: MS-LS4-1		<b>human population</b>	MS-ESS3-4 HS-ESS3-3 DCI: MS-ESS3-3 DCI: MS-ESS3-4 DCI: HS-ESS3-1	
<b>history of the universe</b>	BBK		<b>humanity</b>	DCI: HS-ETS1-1 DCI: HS-LS2-7 DCI: HS-LS4-6	
<b>homeostasis</b>	BBK HS-LS1-3		<b>human-made</b>	HS-ESS1-4 CC: 1-LS1-1 CC: 2-PS1-2 DCI: HS-PS4-5	
<b>homo sapien</b>	MS-ESS1-4		<b>humidity</b>	MS-ESS2-5 HS-ESS2-2	
<b>host</b>	BBK		<b>hunt</b>	HS-LS2-6 HS-LS2-8	
<b>hot</b>	DCI: MS-ESS2-1 DCI: MS-PS3-3 DCI: HS-ESS2-3 DCI: HS-PS3-4		<b>hurricane</b>	MS-ESS3-2 HS-ESS3-1	
			<b>hydrocarbon</b>	DCI: HS-LS1-6	

<b>hydrogen</b>	HS-ESS1-2 HS-LS1-6 HS-LS2-4 HS-PS1-2 DCI: HS-ESS1-2 DCI: HS-ESS1-3 DCI: HS-LS1-6
<b>hydrogen bomb</b>	BBK
<b>hydrogen ion</b>	BBK
<b>hydrologic cycle</b>	MS-ESS2-4 HS-ESS2-5
<b>hydrosphere</b>	BBK 5-ESS2-1 HS-ESS2-6 HS-ESS3-6 HS-LS2-5 DCI: 5-ESS2-1
<b>hydrothermal</b>	MS-ESS3-1
<b>ice</b>	4-ESS2-1 5-ESS2-2 MS-ESS2-2 MS-PS3-4 HS-ESS2-2 HS-ESS2-4 HS-ESS3-5 DCI: 2-ESS2-3 DCI: 4-ESS2-1 DCI: 5-ESS2-1 DCI: MS-ESS2-6
<b>ice age</b>	MS-ESS1-4 DCI: HS-ESS2-4
<b>identical</b>	MS-LS3-2 DCI: MS-LS3-2 DCI: HS-LS1-4
<b>igneous rock</b>	BBK
<b>illuminate</b>	1-PS4-2 DCI: HS-PS4-2
<b>immediate</b>	MS-LS1-8 DCI: MS-LS1-6 DCI: MS-LS1-8
<b>immensely</b>	CC: 5-ESS1-1 CC: 5-PS1-1
<b>immune system</b>	BBK

<b>impact</b>	K-ESS3-3 3-ESS3-1 4-ESS3-2 MS-ESS2-2 MS-ESS3-3 MS-ESS3-4 MS-ETS1-1 MS-LS4-5 MS-PS1-3 MS-PS2-1 HS-ESS1-6 HS-ESS3-2 HS-ESS3-4 HS-ESS3-5 HS-ETS1-3 HS-ETS1-4 HS-LS2-7 HS-LS4-6 CC: 2-ESS2-1 CC: HS-ESS3-3 CC: HS-ETS1-1 CC: HS-ETS1-3 DCI: K-ESS2-2 DCI: K-ESS3-3 DCI: 3-ESS3-1 DCI: 4-ESS3-2 DCI: MS-ESS3-3 DCI: MS-ESS3-4 DCI: HS-ESS3-2 DCI: HS-ESS3-4 DCI: HS-ETS1-3 DCI: HS-LS2-7 DCI: HS-LS4-6
	K-2-ETS1-1 3-5-ETS1-3 CC: 3-5-ETS1-1 CC: 3-PS2-4 CC: 4-ESS3-1 DCI: 3-5-ETS1-2 DCI: 3-5-ETS1-3 SP: K-2-ETS1-1 SP: 3-PS2-4

<b>increase</b>	K-PS2-2 MS-ESS3-4 MS-LS1-5 MS-LS4-4 MS-LS4-6 MS-PS1-4 MS-PS2-3 HS-ESS1-5 HS-ESS2-2 HS-ESS2-7 HS-ESS3-5 HS-LS4-2 HS-LS4-3 HS-LS4-5 HS-PS1-6 CC: 3-5-ETS1-2 CC: 3-ESS3-1 CC: 4-ESS3-2 CC: HS-ESS3-2 CC: HS-ESS3-4 CC: HS-PS3-3 CC: HS-PS4-2 DCI: MS-ESS3-3 DCI: MS-ESS3-4 DCI: MS-LS1-4 DCI: MS-LS2-1 DCI: HS-ESS2-1 DCI: HS-ESS2-2 DCI: HS-ESS2-4 DCI: HS-ESS2-6 DCI: HS-LS2-7 DCI: HS-LS2-8 DCI: HS-LS4-2 DCI: HS-LS4-3 DCI: HS-LS4-4 S
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<b>independent</b>	MS-LS1-3 SP: HS-ESS1-2 SP: HS-ESS1-6 SP: HS-ESS3-1 SP: HS-ESS3-4 SP: HS-ETS1-2 SP: HS-ETS1-3 SP: HS-LS1-1 SP: HS-LS1-6 SP: HS-LS2-3 SP: HS-LS2-7 SP: HS-LS4-2 SP: HS-LS4-4 SP: HS-PS1-2 SP: HS-PS1-5 SP: HS-PS1-6 SP: HS-PS2-3 SP: HS-PS3-3
<b>independent variable</b>	SP: 3 SP: MS-PS2-2 SP: MS-PS3-4
<b>individual differences</b>	BBK
<b>industry</b>	CC: MS-ESS1-3 CC: MS-LS1-1 CC: MS-LS4-5 CC: MS-PS1-3 DCI: 5-ESS3-1
<b>inefficiency</b>	DCI: HS-LS2-4
<b>inert atom</b>	MS-PS1-4 DCI: MS-PS1-4
<b>inertia</b>	BBK
<b>inertial frame of reference</b>	BBK
<b>infection</b>	BBK
<b>infrared radiation</b>	BBK
<b>inherent</b>	CC: HS-PS3-1
<b>inherit</b>	3-LS3-1 DCI: 3-LS3-1 DCI: MS-LS3-2 DCI: HS-LS3-2
<b>inheritable</b>	HS-LS3-2
<b>inheritance</b>	3-LS3-2 MS-LS4-5 DCI: 3-LS3-2

<b>inherited characteristic</b>	BBK
<b>inhibitory molecule</b>	BBK
<b>initial</b>	MS-PS3-4 HS-PS3-4 CC: HS-ESS3-6 CC: HS-PS2-2 CC: HS-PS3-4
<b>inner core</b>	DCI: HS-ESS2-3
<b>insect</b>	BBK MS-LS1-4
<b>inspirational</b>	DCI: HS-LS2-7 DCI: HS-LS4-6
<b>instruction</b>	HS-LS3-1 DCI: HS-LS1-1 DCI: HS-LS3-1
<b>instrument</b>	MS-ESS1-3
<b>instrumentation</b>	DCI: 1-PS4-4 DCI: 4-PS4-3 DCI: MS-PS4-3 DCI: HS-PS4-5
<b>insufficient</b>	3-LS3-2
<b>insulate</b>	MS-PS3-3
<b>insulator</b>	BBK
<b>integrity</b>	DCI: MS-LS2-5
<b>intellectual</b>	CC: MS-LS1-3
<b>intensity</b>	DCI: MS-ESS1-1 DCI: HS-ESS2-4
<b>interaction</b>	3-PS2-3 MS-ESS2-5 MS-LS1-3 MS-LS2-2 MS-PS2-4 MS-PS2-5 HS-ETS1-4 HS-ESS1-5 HS-ESS2-2 HS-ESS2-5 HS-LS2-6 HS-PS2-2 HS-PS3-5 HS-PS4-5 CC: 3-LS4-4 CC: 4-LS1-1

<b>interaction</b>	CC: 4-LS1-2 CC: 5-ESS2-1 CC: 5-ESS3-1 CC: 5-LS2-1 CC: MS-ESS1-2 CC: MS-ESS2-6 CC: MS-PS2-1 CC: MS-PS2-4 CC: MS-PS3-2 CC: HS-ETS1-4 CC: HS-LS1-2 CC: HS-LS1-4 CC: HS-LS2-5 CC: HS-PS4-3 DCI: 3-LS3-2 DCI: MS-ESS2-2 DCI: MS-ESS2-6 DCI: MS-LS2-1 DCI: MS-LS2-2 DCI: MS-PS1-4 DCI: HS-ESS2-4 DCI: HS-LS2-2 DCI: HS-LS2-6 DCI: HS-LS4-2 DCI: HS-PS1-3 DCI: HS-PS2-4(a) DCI: HS-PS2-4(b) DCI: HS-PS2-6 DCI: HS-PS3-1 DCI: HS-PS3-2 DCI: HS-PS4-5 SP: 4-LS1-2 SP: HS-ETS1-4
<b>interconnected</b>	DCI: MS-ESS2-6



<b>interdependence</b>	BBK CC: K-ESS3-2 CC: 3-LS4-3 CC: 3-PS2-4 CC: 4-ESS3-1 CC: 4-PS4-3 CC: MS-ESS1-3 CC: MS-LS1-1 CC: MS-LS4-5 CC: MS-PS1-3 CC: HS-ESS1-2 CC: HS-ESS1-4 CC: HS-ESS2-3 CC: HS-PS4-5
<b>interdependent</b>	HS-LS2-1 DCI: MS-LS2-2
<b>interface</b>	DCI: HS-ESS2-3
<b>interference</b>	HS-PS4-3
<b>interior (adjective)</b>	MS-ESS3-2 HS-ESS3-1 DCI: HS-ESS2-3
<b>interior (noun)</b>	HS-ESS2-3 DCI: MS-ESS2-1 DCI: HS-ESS2-3
<b>internal</b>	4-LS1-1 HS-ESS2-1 DCI: 4-LS1-1 DCI: MS-PS1-4 DCI: HS-LS1-3
<b>internal cue</b>	BBK
<b>internal energy</b>	DCI: MS-PS1-4
<b>internal structure</b>	BBK
<b>interstellar</b>	HS-ESS1-2
<b>intruder</b>	1-LS1-1
<b>invasive species</b>	HS-LS2-7 DCI: HS-LS2-7 DCI: HS-LS4-6
<b>inverse square law</b>	BBK
<b>invertebrate</b>	BBK
<b>ion</b>	BBK HS-PS1-3
<b>ionic motion</b>	BBK

<b>ionize</b>	HS-PS1-1 DCI: HS-PS4-4
<b>iron</b>	DCI: HS-ESS1-2 DCI: HS-ESS1-3
<b>irreversible</b>	2-PS1-4 CC: HS-ESS2-1 CC: HS-ESS3-3 CC: HS-ESS3-5
<b>Isaac Newton</b>	MS-PS2-1 HS-ESS1-4 HS-PS2-1 HS-PS2-4
<b>isotope</b>	BBK DCI: HS-ESS2-3
<b>issue</b>	HS-PS4-2 CC: HS-ESS3-2 DCI: HS-ETS1-1 DCI: HS-PS2-3 DCI: HS-PS3-3
<b>iterative process</b>	DCI: MS-ETS1-4 DCI: MS-PS1-6
<b>Johannes Kepler</b>	BBK
<b>John Dalton</b>	BBK
<b>jointly</b>	DCI: MS-PS1-4 SP: MS-ETS1-2 SP: MS-LS2-5
<b>Kelvin</b>	BBK
<b>Kepler's laws of motion</b>	DCI: HS-ESS1-4
<b>kinetic energy</b>	BBK MS-PS1-4 MS-PS3-1 MS-PS3-4 MS-PS3-5 HS-PS3-2 DCI: MS-PS3-1 DCI: MS-PS3-3 DCI: MS-PS3-4 DCI: HS-PS1-4 DCI: HS-PS1-5 DCI: HS-PS3-1
<b>laboratory</b>	MS-ESS2-5 HS-ESS2-3 SP: 3

<b>lake</b>	HS-ESS3-1 DCI: 2-ESS2-3 DCI: 5-ESS2-2
<b>land</b>	K-ESS3-3 2-ESS2-1 2-ESS2-2 3-LS4-1 3-LS4-4 4-ESS1-1 4-ESS2-2 MS-ESS3-3 HS-ESS2-1 HS-ESS2-7 HS-ESS3-4 HS-ESS3-6 DCI: K-ESS2-2 DCI: K-ESS3-1 DCI: 2-ESS2-1 DCI: 2-LS4-1 DCI: 4-ESS2-1 DCI: 4-ESS2-2 DCI: 5-ESS3-1 DCI: MS-ESS2-2 DCI: MS-ESS2-3 DCI: MS-ESS2-4 DCI: MS-ESS3-1 DCI: HS-ESS2-2 DCI: HS-ESS2-4
<b>land distribution</b>	MS-ESS2-6
<b>land usage</b>	MS-ESS3-3
<b>landform</b>	BBK 5-ESS2-1 DCI: 5-ESS2-1 DCI: MS-ESS2-5 DCI: MS-ESS2-6
<b>landscape</b>	4-ESS1-1 DCI: HS-LS2-7 DCI: HS-LS4-6
<b>landslide</b>	MS-ESS2-2
<b>latitude</b>	MS-ESS2-6 DCI: MS-ESS2-6
<b>latitudinal</b>	MS-ESS2-6
<b>law of conservation of matter</b>	MS-PS1-5

<b>layer</b>	MS-ESS1-3 HS-ESS2-3 DCI: MS-LS4-1 DCI: HS-ESS2-3		BBK K-LS1-1 1-PS4-3 1-PS4-4 4-PS3-2 4-PS3-4 4-PS4-2 MS-LS1-5 HS-ESS1-2 HS-LS1-5 HS-LS4-4 HS-PS4-3 HS-PS4-4 HS-PS4-5 DCI: K-LS1-1 DCI: 1-PS4-2 DCI: 1-PS4-3 DCI: 2-LS2-1 DCI: 4-PS3-2 DCI: 4-PS3-3 DCI: 4-PS3-4 DCI: 4-PS4-2 DCI: MS-LS1-6 DCI: MS-PS4-2 DCI: HS-ESS1-2 DCI: HS-ESS1-3 DCI: HS-LS1-5 DCI: HS-PS3-2 DCI: HS-PS3-3 DCI: HS-PS4-3 DCI: HS-PS4-4 DCI: HS-PS4-5 SP: HS-LS4-1 SP: HS-PS4-3	<b>light wave</b>	MS-PS4-2
<b>Le Chatlier's principle</b>	HS-PS1-6			<b>light wavelength</b>	BBK
<b>leaf</b>	K-ESS3-1 1-LS3-1 2-PS1-4 DCI: 1-LS1-1 MS-LS1-2	<b>light</b>		<b>light year</b>	BBK
<b>levee</b>	MS-ESS3-3			<b>lightning rod</b>	3-ESS3-1
<b>lever arm</b>	BBK			<b>limitation</b>	SP: 2 CC: MS-ESS3-2 CC: MS-ESS3-3 CC: MS-ETS1-1 CC: MS-LS2-5 CC: MS-PS1-3 CC: MS-PS2-1 SP: HS-ESS2-5 SP: HS-LS1-3 SP: HS-PS1-3 SP: HS-PS2-5 SP: HS-PS3-4
<b>life</b>	2-LS4-1 MS-ESS1-4 MS-LS4-1 HS-ESS2-7 HS-LS1-1 CC: K-ESS3-2 CC: 1-PS4-4 DCI: 3-LS1-1 DCI: 5-LS2-1 DCI: MS-LS4-1 DCI: HS-ESS2-7 DCI: HS-LS1-1 DCI: HS-LS2-3 DCI: HS-LS2-4 DCI: HS-LS2-7 DCI: HS-LS4-6			<b>limited</b>	MS-ESS3-1 HS-LS4-2 CC: 5-ESS3-1 CC: HS-PS3-1 DCI: 3-5-ETS1-1 DCI: 4-PS3-4 DCI: MS-ESS3-1 DCI: MS-LS2-1 DCI: HS-LS4-2
<b>life cycle</b>	BBK 3-LS1-1 HS-ESS1-3			<b>linear</b>	CC: HS-ESS3-5 SP: MS-LS4-3 SP: MS-PS3-1 SP: HS-ESS1-4 SP: HS-ESS3-3 SP: HS-ESS3-6 SP: HS-ETS1-4 SP: HS-LS2-1 SP: HS-LS2-2 SP: HS-LS2-4 SP: HS-LS3-3 SP: HS-LS4-3 SP: HS-PS1-7 SP: HS-PS2-2 SP: HS-PS2-4(a) SP: HS-PS2-4(b) SP: HS-PS3-1 SP: HS-PS4-1
<b>life form</b>	MS-LS4-1 HS-ESS2-7 DCI: MS-LS4-1			<b>linear growth</b>	CC: HS-ESS1-4 CC: HS-LS3-3
<b>life form change</b>	BBK	<b>light absorption</b>	BBK		
<b>life span</b>	HS-ESS1-1 DCI: HS-ESS1-1	<b>light beam</b>	DCI: 1-PS4-3		
<b>life-sustaining functions</b>	BBK	<b>light emission</b>	BBK		
<b>lifetime</b>	HS-ESS1-1 HS-ESS1-3 DCI: MS-ESS3-1 DCI: HS-ESS1-5 DCI: HS-ESS1-6	<b>light pulse</b>	MS-PS4-3		
		<b>light reflection</b>	BBK		
		<b>light refraction</b>	BBK		
		<b>light scattering</b>	BBK		
		<b>light source</b>	1-PS4-2 1-PS4-4		
		<b>light transmission</b>	BBK		

<b>liquid</b>	BBK 2-ESS2-3 5-PS1-3 MS-PS1-4 HS-PS3-4 DCI: 2-ESS2-3 DCI: 2-PS1-1 DCI: 5-LS2-1 DCI: MS-PS1-4 DCI: HS-ESS2-3 DCI: HS-ESS2-5
<b>liquid water</b>	BBK
<b>Lise Meitner</b>	BBK
<b>lithosphere</b>	BBK
<b>livestock</b>	HS-ESS3-1 HS-ESS3-4
<b>living</b>	MS-LS1-1 MS-LS2-3 HS-PS4-4 DCI: 3-LS4-4 DCI: MS-ESS2-1 DCI: MS-LS2-2 DCI: MS-LS2-3 DCI: MS-LS4-2 DCI: HS-LS2-1 DCI: HS-LS2-2 DCI: HS-LS2-7 DCI: HS-LS4-6 DCI: HS-PS4-4
<b>living organism</b>	BBK MS-ESS1-4 HS-ESS2-6 DCI: 4-ESS2-1 DCI: MS-ESS2-1
<b>living system</b>	DCI: HS-LS1-3 DCI: HS-LS1-6 DCI: HS-LS1-7

<b>living thing</b>	K-LS1-1 2-LS4-1 MS-LS1-1 DCI: K-ESS2-2 DCI: K-ESS3-1 DCI: K-ESS3-3 DCI: 2-LS4-1 DCI: 4-ESS2-1 DCI: 5-ESS2-1 DCI: MS-ESS2-6 DCI: MS-ESS3-3 DCI: MS-LS1-1 DCI: MS-LS2-1
<b>local</b>	K-ESS2-1 K-ESS3-1 K-ESS3-2 K-ESS3-3 5-PS2-1 MS-ESS2-2 MS-ESS3-2 MS-LS1-5 HS-ESS2-2 HS-ESS3-4 DCI: 4-ESS1-1 DCI: 4-PS3-2 DCI: 4-PS3-4 DCI: MS-ESS2-5 DCI: MS-ESS2-6 DCI: MS-LS1-5 DCI: HS-ETS1-1
<b>logarithm</b>	SP: HS-ESS1-4 SP: HS-ESS3-3 SP: HS-ESS3-6 SP: HS-ETS1-4 SP: HS-LS2-1 SP: HS-LS2-2 SP: HS-LS2-4 SP: HS-LS4-6 SP: HS-PS1-7 SP: HS-PS2-2 SP: HS-PS2-4(a) SP: HS-PS2-4(b) SP: HS-PS3-1 SP: HS-PS4-1
<b>longitude</b>	Marzano Research

<b>longitudinal</b>	Marzano Research
<b>long-term</b>	HS-ESS2-4 HS-LS4-4 CC: MS-ESS3-1 CC: MS-ESS3-4 CC: MS-ETS1-1 DCI: HS-ESS2-4
<b>Louis Pasteur</b>	BBK
<b>low pressure</b>	MS-ESS2-5
<b>lunar phase</b>	MS-ESS1-1
<b>lunar rock</b>	DCI: HS-ESS1-6
<b>lung</b>	4-LS1-1
<b>machine</b>	BBK
<b>macroscopic</b>	MS-LS4-3 HS-PS2-1 HS-PS2-3 CC: MS-PS1-2 DCI: HS-PS2-1
<b>macroscopic level</b>	HS-PS1-6
<b>macroscopic scale</b>	HS-PS1-7 HS-PS3-2 DCI: HS-PS3-2 DCI: HS-PS3-3
<b>magnet</b>	BBK 3-PS2-3 3-PS3-2 3-PS2-4 MS-PS2-3 MS-PS2-5 DCI: 3-PS2-3 DCI: 3-PS2-4 DCI: HS-PS2-4(a) DCI: HS-PS2-4(b) DCI: HS-PS2-5
<b>magnetic</b>	3-PS2-3 DCI: MS-PS2-3 DCI: MS-PS2-5
<b>magnetic attraction</b>	BBK

<b>magnetic field</b>	HS-ESS2-3 HS-PS2-5 HS-PS3-5 DCI: HS-ESS2-3 DCI: HS-PS2-4(a) DCI: HS-PS2-4(b) DCI: HS-PS2-5 DCI: HS-PS4-3	<b>mass</b>	BBK MS-ESS2-5 MS-ESS3-2 MS-PS1-5 MS-PS2-2 MS-PS2-4 MS-PS3-1 MS-PS3-4 HS-ESS1-1 HS-ESS1-3 HS-PS1-7 HS-PS2-1 DCI: 5-PS1-3 DCI: MS-PS1-6 DCI: MS-PS2-2 DCI: MS-PS2-4 DCI: MS-PS3-1 DCI: HS-PS2-2 DCI: HS-PS3-1	<b>material (noun)</b>	5-LS2-1 5-PS1-3 MS-ESS2-1 MS-LS3-1 MS-PS1-3 MS-PS3-4 MS-PS4-2 HS-ESS1-6 HS-ESS2-5 HS-PS1-3 HS-PS2-5 HS-PS2-6 HS-PS4-4 CC: 1-LS1-1 CC: 2-ESS2-1 CC: 2-PS1-2 CC: 5-ESS3-1 CC: MS-PS1-3 CC: MS-PS4-2 CC: HS-LS1-1 CC: HS-ESS2-5 CC: HS-PS2-6 DCI: 1-PS4-3 DCI: 3-5-ETS1-1 DCI: 4-PS3-4 DCI: 5-ESS2-1 DCI: 5-LS2-1 DCI: 5-PS3-1 DCI: MS-ESS2-1 DCI: MS-LS1-7 DCI: MS-PS1-4 DCI: MS-PS4-2 DCI: HS-ESS1-5 DCI: HS-ESS1-6 DCI: HS-ESS2-3 DCI: HS-ESS2-5 DCI: HS-LS1-4 DCI: HS-PS4-5 SP: K-PS3-2 SP: 1-LS1-1 SP: 1-PS4-4 SP: 3-5-ETS1-1	
<b>magnetic force</b>	3-PS2-3 5-PS1-3 MS-PS2-3 DCI: 3-PS2-3 DCI: 3-PS2-4 DCI: MS-PS2-3 D		<b>mass migration</b>		HS-ESS3-1	
<b>magnetic repulsion</b>	BBK		<b>mass to energy conversion</b>		BBK	
<b>magnification</b>	BBK		<b>mass wasting</b>		MS-ESS3-2 HS-ESS2-1 HS-ESS3-1	
<b>magnifier</b>	BBK		<b>massive</b>		DCI: HS-ESS1-2 DCI: HS-ESS1-3	
<b>magnitude</b>	MS-ESS3-2 CC: MS-PS3-1 CC: MS-PS3-4 CC: HS-LS2-2 DCI: 3-PS2-2 DCI: MS-PS2-3 DCI: HS-ESS3-5		<b>mate</b>		3-LS4-2 MS-LS1-4 DCI: 3-LS4-2	
<b>mammoth</b>	BBK		<b>material (adjective)</b>		DCI: HS-PS1-1 DCI: HS-PS1-3 DCI: HS-PS2-6	
<b>management</b>	HS-ESS3-3 DCI: HS-ESS3-3		<b>material (noun)</b>		K-PS3-2 1-LS1-1 1-PS4-1 1-PS4-3 1-PS4-4 2-PS1-1 2-PS1-2 2-PS1-4 3-5-ETS1-1 4-ESS3-1 4-PS3-4 5-LS1-1	
<b>manifest</b>	DCI: HS-PS3-2 DCI: HS-PS3-3				<b>material world</b>	SP: 6 CC: 2-ESS2-1
<b>manifestation</b>	DCI: HS-ETS1-1 DCI: HS-PS3-2					
<b>mantle</b>	BBK HS-ESS2-3 DCI: HS-ESS2-3					
<b>Marie Curie</b>	BBK					
<b>marine</b>	3-LS4-1 4-ESS1-1 HS-ESS3-6					
<b>marine sediment</b>	MS-ESS3-1					

<b>mathematical model</b>	BBK
<b>matter</b>	1-PS4-1 5-LS2-1 5-PS1-1 5-PS1-2 MS-LS1-6 MS-LS1-7 MS-LS2-3 MS-PS1-5 MS-PS3-4 HS-ESS1-2 HS-ESS2-3 HS-LS1-5 HS-LS2-3 HS-LS2-4 HS-PS4-4 HS-PS4-5 CC: 5-LS1-1 CC: MS-ESS2-4 CC: MS-ESS2-6 CC: MS-LS1-6 CC: MS-LS1-7 CC: MS-PS1-5 CC: MS-PS2-1 CC: MS-PS2-4 CC: MS-PS3-2 CC: HS-ESS2-3 CC: HS-ESS2-6 CC: HS-ETS1-4 CC: HS-LS1-2 CC: HS-LS1-4 CC: HS-LS1-5 CC: HS-LS1-6 CC: HS-LS2-3 CC: HS-LS2-5 CC: HS-PS1-4 CC: HS-PS1-7 CC: HS-PS3-3 CC: HS-PS4-3 DCI: 1-PS4-1 DCI: 2-PS1-1 DCI: 5-LS2-1 DCI: 5-PS1-1 DCI: 5-PS1-2

<b>matter</b>	DCI: 5-PS3-1 DCI: MS-ESS2-1 DCI: MS-LS2-3 DCI: MS-PS1-4 DCI: MS-PS3-3 DCI: MS-PS3-4 DCI: HS-ESS2-3 DCI: HS-LS1-6 DCI: HS-LS1-7 DCI: HS-LS2-4 DCI: HS-PS1-1 DCI: HS-PS1-3 DCI: HS-PS2-6 DCI: HS-PS3-1 DCI: HS-PS3-2 DCI: HS-PS4-4 DCI: HS-PS4-5
<b>matter particle</b>	DCI: 5-PS1-1
<b>matter wave</b>	DCI: MS-PS4-2
<b>mean surface temperature</b>	DCI: MS-ESS3-5
<b>measurement of motion</b>	BBK
<b>mechanical</b>	HS-ESS2-5 DCI: MS-LS1-8
<b>mechanical energy</b>	BBK
<b>mechanical motion</b>	BBK
<b>mechanical wave</b>	MS-PS4-2
<b>mediate</b>	DCI: HS-LS1-3 DCI: HS-PS3-2
<b>medical</b>	HS-PS4-5 DCI: HS-PS4-5
<b>medicine</b>	MS-PS1-3 DCI: MS-LS2-5
<b>meiosis</b>	BBK HS-LS3-2 DCI: HS-LS3-2
<b>melt</b>	MS-ESS2-1 MS-PS3-4 HS-ESS2-2 HS-ESS2-5

<b>melting point</b>	BBK HS-PS1-3 DCI: HS-ESS2-5
<b>membership</b>	DCI: HS-LS2-8
<b>memory</b>	MS-LS1-8 HS-ESS2-1 HS-LS1-4 HS-PS4-2 DCI: 4-LS1-2 DCI: MS-LS1-8 DCI: HS-PS4-2 DCI: HS-PS4-5
<b>Mendelian genetics</b>	BBK
<b>metal</b>	BBK 5-PS1-3 HS-ESS3-2 HS-PS1-1 HS-PS2-6
<b>metal ore</b>	MS-ESS3-1
<b>metal reactivity</b>	BBK
<b>metallic surface</b>	BBK
<b>metamorphic rock</b>	BBK
<b>meteor</b>	BBK MS-PS2-1
<b>meteor impact</b>	BBK MS-ESS2-2
<b>meteor movement patterns</b>	BBK
<b>meteorite</b>	HS-ESS1-6 DCI: HS-ESS1-6
<b>methane</b>	MS-ESS3-5
<b>methanol</b>	MS-PS1-1
<b>microbe</b>	DCI: 5-LS2-1
<b>microbial</b>	HS-ESS2-7
<b>microorganism</b>	DCI: MS-LS1-6
<b>microscope</b>	BBK
<b>microscopic</b>	MS-ESS2-2 CC: MS-LS1-2 CC: MS-LS3-1 CC: MS-PS1-2 DCI: MS-ESS2-2 DCI: HS-ESS1-2

<b>microscopic scale</b>	DCI: HS-PS3-2
<b>microwave</b>	BBK DCI: HS-PS4-3
<b>migrate</b>	HS-LS2-8
<b>migration</b>	BBK HS-LS4-2 DCI: HS-ESS3-1
<b>Milky Way</b>	BBK MS-ESS1-2 DCI: MS-ESS1-2
<b>mimic</b>	1-LS1-1 2-LS2-2
<b>mineral</b>	BBK 5-PS1-3 MS-ESS2-1 MS-ESS3-1 MS-ESS3-4 HS-ESS1-6 HS-ESS3-1 HS-ESS3-2 DCI: MS-ESS3-1 DCI: HS-ESS2-1
<b>mining</b>	4-ESS3-1 HS-ESS3-2 HS-ESS3-4
<b>mitigation</b>	DCI: HS-ETS1-1 DCI: HS-PS3-3 DCI: HS-PS2-3
<b>mitochondria</b>	BBK MS-LS1-2
<b>mitosis</b>	BBK HS-LS1-4 DCI: HS-LS1-4
<b>mixed</b>	DCI: 5-PS1-4 DCI: HS-PS4-3
<b>mixture</b>	BBK
<b>moderate</b>	HS-LS2-6
<b>modern</b>	MS-LS4-2 SP: 4 CC: HS-ESS3-1 CC: HS-ESS3-3 CC: HS-PS3-3 CC: HS-PS4-2 CC: HS-PS4-5

<b>modern world</b>	DCI: HS-PS4-5
<b>moisture</b>	HS-ESS2-5 HS-LS1-3
<b>molar volume</b>	BBK
<b>mole</b>	BBK HS-PS1-7
<b>molecular</b>	CC: HS-ESS2-5
<b>molecular arrangement</b>	BBK
<b>molecular energy</b>	BBK
<b>molecular-level (adjective)</b>	MS-PS1-1 MS-PS1-4 HS-PS1-4 HS-PS1-6 HS-PS2-6
<b>molecular level (noun)</b>	HS-PS1-6
<b>molecular motion</b>	BBK
<b>molecular synthesis</b>	BBK

<b>molecule</b>	BBK MS-LS1-7 MS-PS1-1 MS-PS1-4 HS-LS1-6 HS-LS1-7 HS-LS2-4 HS-PS1-3 HS-PS1-5 HS-PS2-6 DCI: MS-LS1-6 DCI: MS-LS1-7 DCI: MS-PS1-1 DCI: MS-PS1-2 DCI: MS-PS1-3 DCI: MS-PS1-4 DCI: MS-PS1-5 DCI: HS-LS1-1 DCI: HS-LS1-6 DCI: HS-LS1-7 DCI: HS-LS2-4 DCI: HS-LS3-1 DCI: HS-PS1-4 DCI: HS-PS1-5 DCI: HS-PS1-6
<b>molten</b>	DCI: 5-ESS2-1
<b>molten rock</b>	BBK
<b>momentum</b>	HS-PS2-2 DCI: 3-PS2-2 DCI: HS-PS2-2 DCI: HS-PS2-3
<b>month</b>	BBK
<b>moon</b>	BBK 1-ESS1-1 MS-ESS1-1 DCI: 1-ESS1-1 DCI: 5-ESS1-2 DCI: MS-ESS1-1
<b>moon rock</b>	HS-ESS1-6
<b>moon's phases</b>	BBK
<b>morphology</b>	HS-LS4-2
<b>Morse code</b>	4-PS4-3
<b>motion energy</b>	4-PS3-4 DCI: MS-PS3-1 DCI: MS-PS3-5

<b>mountain</b>	4-ESS2-2 HS-ESS2-1
<b>mountain building</b>	BBK
<b>mountain chain</b>	MS-ESS1-4 DCI: 4-ESS2-2
<b>mountain range</b>	5-ESS2-1 MS-ESS2-2 DCI: 4-ESS2-2
<b>movement</b>	4-ESS2-1 5-LS2-1 MS-ESS2-2 MS-LS1-6 HS-ESS1-5 HS-LS1-2 DCI: MS-ESS2-2 DCI: MS-ESS2-4 DCI: MS-ESS2-5 DCI: HS-ESS1-2 DCI: HS-ESS1-3 DCI: HS-ESS1-5 DCI: HS-ESS2-1 DCI: HS-ESS2-3
<b>moving magnet</b>	BBK
<b>multicellular</b>	BBK HS-LS1-2 DCI: MS-LS1-1 DCI: MS-LS1-3 DCI: HS-LS1-2 DCI: HS-LS1-4
<b>muscle</b>	HS-LS1-2 DCI: HS-LS1-7
<b>muscular system</b>	BBK MS-LS1-3
<b>mutation</b>	MS-LS3-1 HS-LS3-2 HS-LS4-2 DCI: MS-LS3-1 DCI: MS-LS3-2 DCI: HS-LS4-2
<b>mutualism</b>	BBK
<b>mutually beneficial</b>	MS-LS2-2 DCI: MS-LS2-2
<b>natural gas</b>	HS-ESS3-2

<b>natural hazard</b>	MS-ESS3-2 HS-ESS3-1 DCI: 3-ESS3-1 DCI: 4-ESS3-2 DCI: MS-ESS3-2 DCI: HS-ESS3-1
<b>natural law</b>	MS-LS4-1 CC: HS-ESS1-2 CC: HS-LS4-1 CC: HS-LS4-4
<b>natural phenomenon</b>	SP: 2 SP: 7 CC: 3-LS3-1 CC: 4-PS4-1 CC: 5-ESS1-2 SP: K-PS3-2 SP: 1-LS1-1 SP: 1-LS1-2 SP: 1-LS3-1 SP: 1-PS4-2 SP: 1-PS4-4 SP: 2-ESS1-1 SP: 2-ESS2-1 SP: 2-PS1-3 SP: MS-PS1-5
<b>natural process</b>	MS-ESS3-5 DCI: 4-ESS3-2
<b>natural resource</b>	4-ESS3-1 4-ESS3-2 MS-ESS3-4 MS-PS1-3 HS-ESS3-1 HS-ESS3-3 CC: MS-ESS3-1 CC: MS-ESS3-2 CC: MS-ESS3-3 CC: MS-ESS3-4 CC: MS-ETS1-1 CC: MS-LS2-5 CC: MS-PS1-3 CC: MS-PS2-1 DCI: K-ESS3-1 DCI: MS-ESS3-1 DCI: MS-ESS3-3 DCI: HS-ESS3-3

<b>natural selection</b>	BBK MS-LS4-6 HS-LS4-4 DCI: MS-LS4-4 DCI: MS-LS4-6 DCI: HS-LS4-2 DCI: HS-LS4-3 DCI: HS-LS4-4
<b>naturalistic observation</b>	BBK
<b>nature</b>	CC: MS-PS1-2 DCI: 3-LS4-1 DCI: MS-PS3-4 SP: MS-ESS2-2
<b>nectar</b>	MS-LS1-4
<b>negative</b>	CC: MS-ESS3-1 CC: MS-ESS3-4 CC: MS-ETS1-1 CC: HS-ESS2-2 CC: HS-ESS3-4 CC: HS-LS1-3 DCI: MS-ESS3-3 DCI: MS-ESS3-4 DCI: HS-LS1-3
<b>nerve</b>	DCI: MS-LS1-8
<b>nervous system</b>	BBK MS-LS1-3
<b>net force</b>	BBK HS-PS2-1 HS-PS2-2 DCI: 3-PS2-1
<b>net motion</b>	DCI: 4-PS4-1
<b>net transfer</b>	HS-LS1-7
<b>networked material</b>	HS-PS1-3
<b>neural</b>	HS-LS1-2 DCI: HS-LS1-2
<b>neuron</b>	BBK
<b>neurotransmitter</b>	BBK
<b>neutral</b>	MS-LS3-1
<b>neutron</b>	BBK CC: HS-ESS1-3 CC: HS-PS1-8 DCI: HS-PS1-1 DCI: HS-PS1-8

<b>new gene combinations</b>	BBK
<b>Newtonian mechanics</b>	BBK
<b>Newton's first law of motion</b>	BBK MS-PS2-2
<b>Newton's law of gravitation</b>	HS-ESS1-4 HS-PS2-4 DCI: HS-PS2-4
<b>Newton's second law of motion</b>	BBK MS-PS2-2 HS-PS2-1 DCI: HS-PS2-1
<b>Newton's third law of motion</b>	BBK MS-PS2-1 DCI: MS-PS2-1
<b>night sky</b>	5-ESS1-2
<b>nitrogen</b>	BBK HS-LS2-4
<b>nitrogen cycle</b>	BBK
<b>nonlinear</b>	SP: MS-LS4-3 SP: MS-PS3-1 SP: HS-ESS1-4 SP: HS-ESS3-3 SP: HS-ESS3-6 SP: HS-ETS1-4 SP: HS-LS2-1 SP: HS-LS2-2 SP: HS-LS2-4 SP: HS-LS4-6 SP: HS-PS1-7 SP: HS-PS2-2 SP: HS-PS2-4(a) SP: HS-PS2-4(b) SP: HS-PS3-1 SP: HS-PS4-1
<b>nonliving</b>	MS-LS2-3 DCI: MS-LS2-1 DCI: MS-LS2-2 DCI: MS-LS2-3 DCI: HS-LS2-1 DCI: HS-LS2-2
<b>nonmetal reactivity</b>	BBK
<b>nonreactive gas</b>	BBK

<b>nonrenewable</b>	MS-ESS3-1
<b>nonrenewable energy</b>	4-ESS3-1
<b>North pole</b>	DCI: 5-ESS1-2
<b>nuclear</b>	HS-PS1-8 CC: HS-PS1-8 DCI: HS-ESS1-5 DCI: HS-ESS1-6
<b>nuclear fission</b>	BBK
<b>nuclear force</b>	BBK
<b>nuclear fusion</b>	HS-ESS1-1 DCI: HS-ESS1-1 DCI: HS-ESS1-2 DCI: HS-ESS1-3
<b>nuclear mass</b>	BBK
<b>nuclear process</b>	CC: HS-ESS1-3 DCI: HS-PS1-8
<b>nuclear reaction</b>	BBK
<b>nuclear stability</b>	BBK
<b>nucleated cell</b>	BBK
<b>nucleosynthesis</b>	HS-ESS1-3
<b>nucleus</b>	BBK MS-LS1-2 HS-PS1-8 DCI: HS-PS1-1 DCI: HS-PS1-2
<b>nutrient</b>	BBK MS-LS2-5 HS-LS1-2 DCI: MS-LS2-3

<b>ocean</b>	BBK 5-ESS2-2 MS-ESS2-3 MS-ESS2-6 HS-ESS2-4 HS-ESS2-6 HS-ESS3-4 HS-ESS3-5 HS-ESS3-6 DCI: 2-ESS2-3 DCI: 4-ESS2-2 DCI: 5-ESS2-1 DCI: 5-ESS2-2 DCI: 5-ESS3-1 DCI: MS-ESS2-4 DCI: MS-ESS2-5 DCI: MS-ESS2-6 DCI: MS-ESS3-1 DCI: HS-ESS2-2 DCI: HS-ESS2-4 DCI: HS-ESS3-6 DCI: HS-LS2-5
<b>ocean basin</b>	MS-ESS1-4
<b>ocean circulation</b>	HS-ESS2-4 HS-ESS2-6 DCI: HS-ESS2-4
<b>ocean current</b>	BBK DCI: MS-ESS2-5 DCI: MS-ESS2-6
<b>ocean floor</b>	4-ESS2-2 HS-ESS2-1 DCI: 4-ESS2-2 DCI: MS-ESS2-3 DCI: HS-ESS1-5 DCI: HS-ESS2-1
<b>ocean layers</b>	BBK
<b>ocean ridge</b>	MS-ESS2-3 HS-ESS1-5 HS-ESS2-1 DCI: MS-ESS2-3
<b>ocean trench</b>	MS-ESS2-3 HS-ESS2-1 DCI: 4-ESS2-2 DCI: MS-ESS2-3



<b>oceanic</b>	MS-ESS2-6 DCI: MS-ESS2-6 DCI: MS-LS2-5
<b>oceanic crust</b>	HS-ESS1-5
<b>offspring</b>	BBK 1-LS1-2 3-LS3-1 3-LS4-2 MS-LS3-2 HS-LS3-1 DCI: 1-LS1-2 DCI: MS-LS3-2 DCI: MS-LS4-5
<b>ohm</b>	BBK
<b>oil</b>	BBK
<b>oil shale</b>	HS-ESS3-2
<b>omnivore</b>	BBK
<b>one-dimensional</b>	HS-ESS2-3
<b>opaque</b>	1-PS4-3
<b>operate</b>	MS-LS4-1 HS-ESS2-1 CC: HS-ESS1-2 CC: HS-LS4-1 CC: HS-LS4-4 DCI: 5-LS2-1 DCI: MS-ESS2-2 SP: MS-ESS1-4 SP: MS-ESS2-2 SP: MS-ESS3-1 SP: MS-LS1-5 SP: MS-LS1-6 SP: HS-ESS1-2 SP: HS-ESS3-1 SP: HS-LS1-1 SP: HS-LS1-6 SP: HS-LS2-3 SP: HS-LS4-2 SP: HS-LS4-4 SP: HS-PS1-2
<b>optimal</b>	MS-ETS1-4 SP: 6 DCI: MS-ETS1-4 DCI: MS-PS1-6 SP: HS-ESS2-2 SP: HS-PS2-1

<b>orbit</b>	MS-ESS1-2 HS-ESS1-3 HS-ESS2-4 DCI: 5-ESS1-2 DCI: MS-ESS1-1 DCI: MS-ESS1-2 DCI: MS-ESS1-3 DCI: HS-ESS1-4 DCI: HS-ESS2-4
<b>orbital</b>	MS-ESS1-2 MS-PS2-4 HS-ESS1-4
<b>orbital radius</b>	MS-ESS1-3
<b>organ</b>	BBK MS-LS1-3 DCI: MS-LS1-3 DCI: HS-LS1-4
<b>organic</b>	MS-ESS3-1 DCI: MS-LS1-6
<b>organic compound synthesis</b>	BBK
<b>organic matter</b>	BBK
<b>organism</b>	BBK 3-LS1-1 3-LS3-1 3-LS4-1 3-LS4-3 3-LS4-4 5-LS2-1 MS-ESS1-4 MS-LS1-5 MS-LS1-6 MS-LS1-7 MS-LS2-1 MS-LS2-2 MS-LS3-1 MS-LS4-1

<b>organism</b>	MS-LS4-2 MS-LS4-3 MS-LS4-5 HS-ESS2-6 HS-ESS3-6 HS-LS1-2 HS-LS1-4 HS-LS1-5 HS-LS2-4 HS-LS2-6 HS-LS4-2 HS-LS4-3 HS-LS4-4 HS-LS4-6 DCI: 1-LS1-1 DCI: 3-LS1-1 DCI: 3-LS3-1 DCI: 3-LS3-2 DCI: 3-LS4-1 DCI: 3-LS4-3 DCI: 3-LS4-4 DCI: 4-ESS2-1 DCI: 5-ESS2-1 DCI: 5-LS2-1 DCI: 5-PS3-1 DCI: MS-ESS2-1 DCI: MS-LS1-1 DCI: MS-LS1-3 DCI: MS-LS1-4 DCI: MS-LS1-7 DCI: MS-LS2-1 DCI: MS-LS2-2 DCI: MS-LS2-3 DCI: MS-LS3-1 DCI: MS-LS3-2 DCI: MS-LS4-2 DCI: MS-LS4-5 DCI: HS-ESS2-6 DCI: HS-ESS2-7 DCI: HS-LS1-1 DCI: HS-LS1-2 DCI: HS-LS1-4 DCI: HS-LS2-1 DCI: HS-LS2-2 DCI: HS-LS2-4
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<b>organism (cont'd)</b>	DCI: HS-LS2-6 DCI: HS-LS3-1 DCI: HS-LS4-1 DCI: HS-LS4-2 DCI: HS-LS4-3 DCI: HS-LS4-4
<b>organism system failure</b>	BBK
<b>organization</b>	HS-LS1-2 DCI: HS-LS1-2 DCI: HS-LS1-6 DCI: HS-LS1-7
<b>organ system</b>	BBK
<b>orientation</b>	3-PS2-3 MS-PS3-2 HS-ESS2-4 DCI: 3-PS2-3 DCI: 3-PS2-4
<b>origin of life</b>	BBK
<b>origin of the universe</b>	BBK
<b>original</b>	DCI: MS-PS1-2 DCI: MS-PS1-3 DCI: MS-PS1-5 DCI: HS-ESS2-1 DCI: HS-ESS2-2 DCI: HS-LS2-2 DCI: HS-LS2-6
<b>outer core</b>	HS-ESS2-3 DCI: HS-ESS2-3
<b>outer electron state</b>	DCI: HS-PS1-1 DCI: HS-PS1-2
<b>outermost</b>	HS-PS1-1 HS-PS1-2
<b>outward</b>	DCI: HS-ESS2-3
<b>overexploitation</b>	DCI: HS-LS2-7 DCI: HS-LS4-6
<b>overpopulation</b>	DCI: HS-LS2-7 DCI: HS-LS4-6
<b>oxidation</b>	BBK
<b>oxidation-reduction reaction</b>	BBK

<b>oxygen</b>	BBK HS-ESS2-7 HS-LS1-6 HS-LS1-7 HS-LS2-4 HS-PS1-1 HS-PS1-2 DCI: MS-LS1-6 DCI: MS-LS1-7 DCI: MS-LS2-1 DCI: HS-ESS2-6 DCI: HS-ESS2-7 DCI: HS-LS1-5 DCI: HS-LS1-6
<b>ozone</b>	BBK
<b>parasite</b>	BBK
<b>parent</b>	BBK 1-LS1-2 1-LS3-1 3-LS3-1 MS-LS3-2 HS-LS3-1 DCI: 1-LS1-2 DCI: 1-LS3-1 DCI: 3-LS3-1 DCI: MS-LS3-2 DCI: MS-LS4-5
<b>parent cell</b>	DCI: HS-LS1-4
<b>parental generation</b>	BBK
<b>parent/offspring similarity</b>	BBK

<b>particle</b>	5-PS1-1 MS-PS1-4 MS-PS3-4 HS-PS1-3 HS-PS1-5 HS-PS3-2 HS-PS4-3 DCI: 4-ESS2-1 DCI: 5-PS1-1 DCI: 5-PS1-3 DCI: MS-PS3-3 DCI: MS-PS3-4 DCI: HS-PS3-1 DCI: HS-PS3-2 DCI: HS-PS4-3
<b>particle emission</b>	BBK
<b>particle motion</b>	MS-PS1-4
<b>particle ring</b>	BBK
<b>passive</b>	4-PS3-4
<b>past motion</b>	DCI: 3-PS2-2
<b>peak</b>	DCI: 4-PS4-1 DCI: HS-PS4-3
<b>pebble</b>	BBK
<b>peer review</b>	BBK SP: HS-ESS1-2 SP: HS-ESS3-1 SP: HS-LS1-1 SP: HS-LS1-6 SP: HS-LS2-3 SP: HS-LS4-2 SP: HS-LS4-4 SP: HS-PS1-2
<b>peers</b>	SP: 7 SP: 8 DCI: 3-5-ETS1-2 SP: K-PS2-1 SP: 3-ESS3-1 SP: 3-LS2-1 SP: 3-LS4-3 SP: 3-LS4-4 SP: 4-LS1-1 SP: 5-ESS1-1 SP: 5-LS2-1 SP: 5-PS2-1

<b>per-capita</b>	MS-ESS3-4 HS-ESS3-3 DCI: MS-ESS3-3 DCI: MS-ESS3-4
<b>percentage</b>	5-ESS2-2
<b>perception</b>	DCI: 4-LS1-2
<b>percolation</b>	BBK
<b>perform</b>	K-2-ETS1-3 DCI: 3-5-ETS1-2 DCI: 4-ESS3-2 DCI: MS-ETS1-3 DCI: MS-PS1-6 DCI: HS-LS1-1
<b>performance</b>	DCI: HS-LS4-2 DCI: HS-LS4-3 SP: HS-ESS1-3 SP: HS-LS4-1 SP: HS-PS2-6 SP: HS-PS4-5
<b>period [time]</b>	MS-LS2-1 MS-PS2-4 CC: HS-ESS2-1 CC: HS-ESS3-3 CC: HS-ESS3-5 DCI: HS-LS2-2 DCI: HS-LS2-6
<b>periodic table</b>	BBK HS-PS1-1 HS-PS1-2 DCI: HS-PS1-1 DCI: HS-PS1-2
<b>permeate</b>	DCI: HS-PS2-4(a) DCI: HS-PS2-4(b) DCI: HS-PS2-5
<b>petal</b>	4-LS1-1
<b>petroleum</b>	MS-ESS3-1 HS-ESS3-2
<b>pharmaceutical</b>	HS-PS2-6
<b>phase</b>	MS-ESS1-1 DCI: HS-PS4-3
<b>phase change</b>	BBK 5-PS1-2
<b>photoelectric</b>	HS-PS4-3 DCI: HS-PS4-5
<b>photograph</b>	MS-ESS1-3

<b>photon</b>	HS-PS4-4 DCI: HS-PS4-3
<b>photosynthesis</b>	BBK MS-LS1-6 HS-LS1-5 HS-LS2-5 DCI: MS-LS1-6 DCI: HS-LS1-5 DCI: HS-LS2-3
<b>photosynthesizing organism</b>	BBK
<b>photosynthetic</b>	HS-ESS2-7 HS-ESS3-6
<b>photosynthetic plants</b>	BBK
<b>phylogenetics</b>	BBK
<b>physical change</b>	HS-LS2-6 DCI: MS-ESS2-1
<b>physical characteristic</b>	DCI: 3-LS4-4 DCI: 4-ESS2-1
<b>physical model</b>	K-2-ETS1-2 4-PS4-1 MS-PS1-5 DCI: K-2-ETS1-3 DCI: K-ESS3-3 DCI: 2-LS2-2 DCI: HS-ETS1-4 DCI: HS-LS4-6
<b>physical process</b>	DCI: HS-ESS2-3
<b>physical properties</b>	BBK DCI: 5-ESS2-2 DCI: 5-PS1-2 DCI: MS-PS1-2 DCI: MS-PS1-3
<b>physical replica</b>	SP: K-2-ETS1-2 SP: K-ESS3-1 SP: 2-ESS2-2 SP: 2-LS2-2
<b>physiological</b>	DCI: HS-LS4-3 DCI: HS-LS4-4
<b>physiological change</b>	BBK
<b>physiology</b>	HS-LS4-2
<b>phytoplankton</b>	DCI: MS-LS1-6
<b>Pierre Curie</b>	BBK

<b>pinhole box</b>	1-PS4-2
<b>pixel</b>	DCI: HS-PS4-2 DCI: HS-PS4-5
<b>planet</b>	BBK HS-ESS1-4 DCI: 5-PS2-1 DCI: MS-ESS1-2 DCI: MS-ESS1-3 DCI: MS-ESS2-1 DCI: MS-ESS2-2 DCI: MS-ESS3-1 DCI: HS-ESS2-3 DCI: HS-ESS2-4 DCI: HS-ESS2-5
<b>planet composition</b>	BBK
<b>planet orbits</b>	BBK
<b>planet size</b>	BBK
<b>planet surface features</b>	BBK
<b>planetary</b>	HS-ESS1-6

<b>plant</b>	BBK	<b>plant matter</b>	5-LS1-1	<b>population</b>	BBK	
	K-ESS2-2	<b>plant organ</b>	BBK		MS-LS2-1	
	K-ESS3-1	<b>plant part</b>	DCI: 5-LS2-1		MS-LS2-4	
	K-LS1-1	<b>plant product</b>	BBK		MS-LS4-4	
	1-LS1-1	<b>plant structure</b>	MS-LS1-4		MS-LS4-6	
	1-LS3-1	<b>plate</b>	MS-ESS2-2		HS-ESS3-1	
	2-LS2-1		MS-ESS2-3		HS-ESS3-3	
	2-LS2-2		HS-ESS1-5		HS-ESS3-6	
	2-LS4-1		HS-PS3-2		HS-LS2-1	
	2-PS1-4		DCI: MS-ESS2-3		HS-LS2-2	
	3-LS3-1	DCI: HS-ESS2-3	HS-LS3-3			
	3-LS3-2	<b>plate boundary</b>	BBK		HS-LS4-4	
	3-LS4-1	<b>plate collision</b>	BBK		DCI: MS-LS2-1	
	3-LS4-2	<b>plate tectonics</b>	BBK		DCI: MS-LS2-2	
	3-LS4-4		HS-ESS1-5		DCI: MS-LS2-4	
	4-ESS1-1		HS-ESS2-3		DCI: MS-LS4-4	
	4-LS1-1		DCI: HS-ESS1-5		DCI: MS-LS4-6	
	5-LS1-1		DCI: HS-ESS1-6		DCI: HS-ESS3-1	
	5-LS2-1	DCI: HS-ESS2-1	DCI: HS-LS2-1			
	MS-LS1-4	DCI: HS-ESS2-3	DCI: HS-LS2-2			
	MS-LS1-5	<b>plateau</b>	HS-ESS2-1		DCI: HS-LS2-6	
	HS-ESS2-7	<b>plumage</b>	MS-LS1-4		DCI: HS-LS2-7	
	HS-LS1-5	<b>polar ice caps</b>	5-ESS2-2		DCI: HS-LS3-2	
	DCI: K-ESS2-2	<b>pole</b>	DCI: 5-ESS1-2		DCI: HS-LS3-3	
	DCI: K-LS1-1	<b>pollen</b>	MS-LS1-4		DCI: HS-LS3-4	
	DCI: 1-LS1-1	<b>pollinate</b>	2-LS2-2		DCI: HS-LS3-5	
	DCI: 1-LS1-2	<b>pollination</b>	DCI: 2-LS2-2		DCI: HS-LS3-6	
	DCI: 1-LS3-1	<b>pollutant</b>	HS-ESS3-4		DCI: HS-LS4-2	
	DCI: 2-LS2-1	<b>pollution</b>	BBK		DCI: HS-LS4-3	
	DCI: 2-LS2-2		4-ESS3-1		DCI: HS-LS4-5	
	DCI: 3-LS1-1		MS-ESS3-3			
	DCI: 3-LS4-1		DCI: HS-ESS3-4		<b>population density</b>	BBK
	DCI: 4-LS1-1		DCI: HS-ETS1-1		<b>position over time</b>	BBK
	DCI: 5-LS1-1	DCI: HS-LS2-7	<b>positive</b>		CC: MS-ESS3-1	
	DCI: 5-LS2-1	DCI: HS-LS4-6			CC: MS-ESS3-4	
	DCI: 5-PS3-1	<b>polygenic trait</b>			CC: MS-ETS1-1	
	DCI: MS-LS1-4	BBK			CC: HS-ESS2-2	
	DCI: MS-LS1-5	<b>pond</b>			CC: HS-ESS3-4	
	DCI: MS-LS1-6	MS-LS1-5	CC: HS-LS1-3			
	DCI: MS-LS1-7	DCI: 2-ESS2-3	DCI: MS-ESS3-3			
	DCI: MS-LS2-3		DCI: HS-LS1-3			
	DCI: MS-LS2-6		DCI: HS-LS4-3			
	DCI: HS-ESS2-6		<b>possess</b>		DCI: 4-PS3-1	
	DCI: HS-ESS2-7		<b>potential (adjective)</b>		MS-ETS1-1	
	DCI: HS-LS2-4					
	<b>plant growth</b>	BBK				

<b>potential (noun)</b>	HS-LS4-2 DCI: HS-LS4-2
<b>potential energy</b>	BBK MS-PS3-2 DCI: MS-PS1-4 DCI: MS-PS3-2
<b>powder</b>	5-PS1-3
<b>precipitation</b>	BBK 3-ESS2-1 MS-ESS2-5 HS-ESS2-4 HS-ESS3-1 HS-ESS3-5 DCI: MS-ESS2-4
<b>precise</b>	DCI: MS-ETS1-1 DCI: MS-PS3-3
<b>precision</b>	MS-ETS1-1 CC: HS-PS3-1 SP: HS-LS1-3 SP: HS-PS1-3 SP: HS-PS2-5 SP: HS-PS3-4
<b>predation</b>	BBK DCI: HS-LS2-1 DCI: HS-LS2-2
<b>predator</b>	BBK 3-LS4-2 MS-LS1-4
<b>predatory</b>	MS-LS2-2 DCI: MS-LS2-2
<b>prediction</b>	BBK MS-ESS3-2 SP: 2 CC: 3-ESS2-1 CC: 3-ESS2-2 CC: 3-LS1-1 CC: 3-PS2-2 CC: HS-PS3-1 DCI: 3-ESS2-1
<b>predominance</b>	DCI: MS-LS4-4
<b>prehistoric animals</b>	BBK
<b>prehistoric environment</b>	BBK
<b>prehistoric organism</b>	BBK

<b>presence</b>	DCI: 4-ESS1-1 DCI: HS-ESS1-2
<b>presentation</b>	DCI: HS-ETS1-4 DCI: HS-LS4-6
<b>preserve</b>	DCI: HS-LS2-7 DCI: HS-LS4-6
<b>pressure</b>	BBK MS-ESS2-5 HS-ESS2-3 HS-PS1-3 DCI: MS-PS1-4
<b>prey</b>	BBK
<b>primordial</b>	DCI: HS-ESS1-2
<b>priority</b>	DCI: HS-ETS1-2 DCI: HS-PS1-6 DCI: HS-PS2-3
<b>probabilistic</b>	MS-ESS2-5 DCI: MS-ESS2-5
<b>probability</b>	MS-LS1-4 MS-LS4-4 MS-LS4-6 HS-LS3-3 HS-LS4-3 CC: MS-LS1-4 CC: MS-LS1-5 CC: MS-LS4-4 CC: MS-LS4-5 CC: MS-LS4-6 DCI: HS-LS3-2 DCI: HS-LS3-3 SP: HS-LS3-3 SP: HS-LS4-3F
<b>probe (noun)</b>	DCI: HS-ESS2-3
<b>probe (verb)</b>	DCI: HS-ESS2-3
<b>process (verb)</b>	4-LS1-2 DCI: 4-LS1-2 DCI: MS-LS1-8
<b>producer</b>	DCI: MS-LS2-3

<b>product</b>	HS-PS1-4 HS-PS1-6 HS-PS1-7 CC: 1-LS1-1 CC: 2-PS1-2 CC: 4-PS4-3 DCI: HS-LS1-6 DCI: HS-LS1-7
<b>production</b>	MS-ESS3-5 HS-ESS2-7 HS-ESS3-2 DCI: MS-LS3-1
<b>productivity</b>	DCI: HS-LS2-7 DCI: HS-LS4-6
<b>progress</b>	CC: MS-PS4-3 CC: HS-LS3-3
<b>proliferation</b>	HS-LS4-2

<b>properties</b>	2-PS1-1	<b>proportional</b>	MS-LS4-4	<b>push</b>	K-PS2-1	
	2-PS1-2		MS-LS4-6		K-PS2-2	
	5-PS1-3		HS-LS2-4		3-PS2-1	
	MS-ESS1-3		HS-LS4-2		DCI: K-PS2-1	
	MS-PS1-2		HS-PS1-7		DCI: K-PS2-2	
	HS-ESS2-5		CC: MS-PS3-1		<b>qualitative</b>	K-ESS2-1
	HS-PS1-1		CC: MS-PS3-4			3-PS2-1
	HS-PS1-2		DCI: MS-PS1-4			MS-PS1-4
	HS-PS1-3		DCI: MS-PS3-1			MS-PS2-2
	CC: MS-PS1-3		DCI: 3-5-ETS1-1			MS-PS4-1
	CC: MS-PS3-1		DCI: 4-PS3-4			MS-PS4-3
	CC: MS-PS3-4		<b>protein</b>			HS-ETS1-1
	CC: MS-PS4-2					BBK
	CC: HS-ESS2-5					MS-LS3-1
CC: HS-LS1-1	HS-LS1-1					
CC: HS-PS2-6	DCI: MS-LS3-1	HS-PS1-8				
DCI: 2-PS1-1	DCI: HS-LS1-1	HS-PS2-2				
DCI: 2-PS1-3	DCI: HS-LS1-6	HS-PS3-3				
DCI: 3-PS2-3	DCI: HS-LS3-1	SP: 3-5-ETS1-1				
DCI: 3-PS2-4	<b>protein structure</b>	SP: 3-ESS2-1				
DCI: 5-PS1-2		BBK				
DCI: 5-PS1-3	<b>protein synthesis</b>	SP: 3-LS3-1				
DCI: 5-PS1-4		BBK				
DCI: MS-PS1-1	<b>proton</b>	SP: 3-LS4-1				
DCI: MS-PS1-2		BBK				
DCI: MS-PS1-3		CC: HS-ESS1-3				
DCI: MS-PS1-5		CC: HS-PS1-8				
DCI: HS-ESS2-5	DCI: HS-PS1-1	SP: 3-PS2-3				
DCI: HS-PS1-1	DCI: HS-PS1-2	SP: 3-PS2-4				
DCI: HS-PS1-3	DCI: HS-PS1-8	SP: 4-ESS2-2				
DCI: HS-PS2-6	<b>prototype</b>	SP: 4-PS3-3				
SP: 5-ESS2-2		3-5-ETS1-3				
SP: 5-PS1-2	<b>Ptolemy</b>	SP: 5-ESS1-2				
<b>properties of elements</b>		BBK	SP: MS-LS2-2			
	<b>properties of light</b>	<b>pull</b>	SP: MS-LS4-4			
K-PS2-1						
<b>properties of reactants</b>	BBK	K-PS2-2				
	<b>properties of soil</b>	<b>pulley</b>	HS-PS2-1			
BBK			DCI: K-PS2-1			
<b>properties of sound</b>	<b>Punnett square</b>	DCI: K-PS2-2				
		MS-LS3-2				
<b>properties of water</b>	<b>pure substance</b>	DCI: 5-PS2-1				
		MS-PS1-4				
<b>properties of waves</b>	BBK	DCI: MS-ESS1-2				
		DCI: MS-PS1-2				
		DCI: MS-ESS1-3				
		DCI: MS-PS1-3				

<b>quantitative</b>	K-ESS2-1
	MS-PS4-1
	HS-ESS2-6
	HS-ETS1-1
	HS-LS2-1
	HS-PS2-2
	HS-PS2-4
	HS-PS2-4
	HS-PS3-3
	HS-PS3-4
	DCI: HS-PS3-1
	DCI: HS-PS3-2
	SP: 3-ESS2-1
	SP: 3-LS3-1
	SP: 3-LS4-1
	SP: 4-ESS2-2
	SP: 5-ESS1-2
	SP: 5-ESS2-2
	SP: 5-PS1-2
	SP: MS-ESS1-3
	SP: MS-ESS2-3
	SP: MS-ESS3-2
	SP: MS-ETS1-3
	SP: MS-LS2-1
	SP: MS-LS2-2
	SP: MS-LS4-1
	SP: MS-LS4-3
SP: MS-LS4-4	
SP: MS-PS1-2	
SP: MS-PS3-1	
<b>quantum of energy</b>	BBK
<b>question formulation</b>	BBK
<b>radial</b>	HS-ESS2-3
<b>radiation</b>	BBK
	HS-ESS1-1
	HS-ESS1-2
	HS-PS4-4
	DCI: HS-ESS1-1
	DCI: HS-ESS2-2
	DCI: HS-ESS2-4
DCI: HS-PS3-1	
DCI: HS-PS3-2	
<b>radical reaction</b>	BBK

<b>radio</b>	DCI: HS-PS4-3
<b>radio wave</b>	BBK MS-PS4-3
<b>radioactive</b>	DCI: HS-ESS1-5 DCI: HS-ESS1-6
<b>radioactive dating</b>	BBK DCI: MS-LS4-1
<b>radioactive decay</b>	BBK HS-PS1-8 DCI: HS-ESS2-3 DCI: HS-PS1-8
<b>radioactive isotope</b>	BBK
<b>radiometric dating</b>	HS-ESS1-6 DCI: HS-ESS1-5 DCI: HS-ESS1-6
<b>rain</b>	DCI: K-ESS2-1
<b>rainfall</b>	DCI: 4-ESS2-1
<b>rainy</b>	K-ESS2-1
<b>ramp</b>	K-PS2-2 HS-PS2-1
<b>random</b>	DCI: MS-LS3-2
<b>rate of nuclear decay</b>	BBK
<b>ratio</b>	HS-ESS3-2
	CC: MS-PS3-1
	CC: MS-PS3-4
<b>react</b>	MS-PS1-2
	HS-PS1-5
	DCI: MS-LS1-7
	DCI: MS-PS1-2
	DCI: MS-PS1-3
<b>reactant</b>	DCI: MS-PS1-5
	DCI: HS-LS2-4
	HS-PS1-4
	HS-PS1-5
	HS-PS1-6
<b>reactant</b>	HS-PS1-7
	DCI: MS-PS1-2
	DCI: MS-PS1-3
	DCI: MS-PS1-5

<b>reaction</b>	5-PS1-2
	HS-PS1-1
	HS-PS1-2
	HS-PS1-4
	HS-PS1-5
<b>reaction rate</b>	DCI: 5-PS1-2
	DCI: MS-LS1-6
	DCI: HS-PS1-2
<b>reactivity</b>	DCI: HS-PS1-6
	DCI: HS-PS1-7
<b>reaction rate</b>	BBK
<b>reactivity</b>	HS-PS1-1
<b>real-world</b>	HS-ETS1-4
	HS-ETS1-2
	HS-ETS1-3
	HS-ETS1-4
	SP: MS-LS4-2
	SP: HS-ESS3-2
	SP: HS-ESS3-4
	SP: HS-ETS1-1
	SP: HS-ETS1-2
	SP: HS-ETS1-3
	SP: HS-LS2-7
	SP: HS-PS1-6
	SP: HS-PS3-3
<b>rearrangement</b>	DCI: HS-PS1-4 DCI: HS-PS1-5
<b>recede</b>	DCI: HS-ESS1-2
<b>receptor</b>	MS-LS1-8
	HS-PS2-6
	DCI: 4-LS1-2
<b>recessive trait</b>	DCI: MS-LS1-8
	BBK
<b>recharge</b>	HS-ESS2-2
<b>recognizable</b>	SP: 5
	DCI: 1-LS3-1
<b>recombination of chemical elements</b>	BBK
<b>recombination of genetic material</b>	BBK
<b>reconstruction</b>	DCI: MS-LS4-2
	DCI: HS-ESS2-3
<b>record</b>	HS-ESS1-6
	DCI: HS-ESS2-4

<b>recreational</b>	DCI: HS-LS2-7 DCI: HS-LS4-6
<b>recrystallization</b>	BBK HS-ESS2-5
<b>recycle</b>	BBK K-ESS3-3 MS-LS2-5 HS-ESS3-2 HS-ESS3-4 DCI: 5-LS2-1 DCI: MS-LS2-3
<b>recycling</b>	HS-ESS3-2 DCI: MS-LS2-5
<b>recycling of matter</b>	BBK
<b>red shift</b>	HS-ESS1-2
<b>redesign process</b>	DCI: MS-ETS1-3 DCI: MS-PS1-6
<b>redistribute</b>	DCI: MS-ESS2-6 DCI: HS-ESS2-2 DCI: HS-ESS2-4
<b>refinement</b>	HS-PS2-3 DCI: MS-ETS1-4 DCI: MS-PS1-6
<b>reflect</b>	4-PS4-2 MS-PS4-2 HS-ESS2-2 HS-PS4-4 DCI: 4-PS4-2 DCI: MS-PS4-2 DCI: HS-PS1-1 DCI: HS-PS1-2 SP: HS-LS3-2
<b>reflection</b>	BBK DCI: HS-ESS2-2 DCI: HS-ESS2-3 DCI: HS-ESS2-4
<b>reflective</b>	1-PS4-3
<b>reflectivity</b>	5-PS1-3

<b>region</b>	3-ESS2-2 MS-ESS2-5 MS-ESS3-2 HS-ESS3-1 CC: MS-ESS3-2 CC: MS-ESS3-3 CC: MS-LS2-5 CC: MS-PS1-3 DCI: K-ESS2-1 DCI: K-ESS3-2 DCI: 4-ESS2-1 DCI: MS-ESS3-2 DCI: MS-PS3-3 DCI: HS-LS1-1 DCI: HS-LS3-1
<b>regional</b>	MS-ESS2-6 MS-ESS3-5 HS-ESS3-1 HS-ESS3-5 DCI: 4-ESS1-1 DCI: MS-ESS2-6 DCI: HS-ESS2-4 DCI: HS-ESS3-6
<b>regularity</b>	CC: MS-PS1-5
<b>regulate</b>	HS-LS1-2 DCI: HS-LS3-1 DCI: HS-LS3-2
<b>regulation</b>	DCI: HS-ESS3-2
<b>regulatory</b>	DCI: HS-LS3-1

<b>relative</b>	1-ESS1-2 4-ESS2-1 5-ESS1-1 MS-ESS1-2 MS-ESS1-4 MS-PS3-2 HS-LS2-6 HS-PS1-1 HS-PS1-4 HS-PS1-8 HS-PS3-2 DCI: 3-PS2-3 DCI: 3-PS2-4 DCI: 5-LS2-1 DCI: MS-ESS1-1 DCI: MS-ESS1-4 DCI: MS-PS1-4 DCI: MS-PS3-2 DCI: HS-LS2-2 DCI: HS-LS2-6 DCI: HS-LS2-8 DCI: HS-PS3-1 DCI: HS-PS3-2 DCI: HS-PS3-5 DCI: HS-PS4-3
<b>relative mass</b>	BBK
<b>relative motion</b>	BBK
<b>relative position</b>	BBK



<b>release</b>	MS-LS1-7
	MS-PS1-6
	HS-ESS1-1
	HS-ESS3-4
	HS-PS1-4
	HS-PS1-8
	DCI: 5-LS2-1
	DCI: 5-PS3-1
	DCI: MS-ESS2-6
	DCI: MS-ESS3-5
	DCI: MS-LS1-6
	DCI: MS-LS1-7
	DCI: MS-PS1-6
	DCI: HS-ESS1-1
	DCI: HS-ESS1-2
	DCI: HS-ESS1-3
DCI: HS-ESS2-5	
DCI: HS-ESS2-6	
DCI: HS-ESS2-7	
DCI: HS-LS1-5	
DCI: HS-LS1-7	
DCI: HS-LS2-4	
DCI: HS-PS1-4	
DCI: HS-PS1-5	
DCI: HS-PS1-8	
<b>release of energy</b>	BBK
<b>remove</b>	MS-ESS3-1
	MS-ESS3-3
	MS-PS1-4
	HS-PS1-6
<b>renewable</b>	Marzano Research
<b>renewable energy</b>	4-ESS3-1
	HS-PS3-3
<b>renewable resource</b>	MS-ESS3-1
	DCI: 4-ESS3-1
	DCI: MS-ESS3-1
<b>replicable experiment</b>	BBK
<b>replication</b>	HS-LS3-2
	DCI: HS-LS3-2

<b>representation</b>	MS-ESS2-6
	MS-LS4-6
	MS-PS1-1
	MS-PS3-2
	MS-PS3-5
	MS-PS4-1
	HS-ESS1-4
	HS-ESS3-6
	HS-LS2-1
	HS-LS2-2
	HS-LS2-4
	HS-PS1-4
	HS-PS1-7
	HS-PS2-2
	HS-PS2-4
	HS-PS4-4
	DCI: K-2-ETS1-2
	DCI: K-ESS3-3
	DCI: 2-LS2-2
	SP: K-ESS2-2
	SP: 2-PS1-4
	SP: 4-PS4-1
	SP: MS-LS4-6
	SP: MS-PS4-1
	SP: HS-ESS1-4
	SP: HS-ESS3-6
	SP: HS-LS2-1
	SP: HS-LS2-2
SP: HS-LS2-4	
SP: HS-PS1-7	
SP: HS-PS2-2	
SP: HS-PS2-4	
SP: HS-PS4-1	
<b>reproduce</b>	3-LS4-2
	MS-LS4-4
	HS-LS2-8
	HS-LS4-2
	DCI: 3-LS4-2
	DCI: 3-LS4-4
	DCI: MS-LS1-4
	DCI: MS-LS3-2
	DCI: HS-LS4-2
	DCI: HS-LS4-3
DCI: HS-LS4-4	
DCI: HS-LS4-5	

<b>reproducible result</b>	BBK
<b>reproduction</b>	BBK
	3-LS1-1
	4-LS1-1
	MS-LS1-4
	MS-LS3-2
	HS-LS4-2
	DCI: 3-LS1-1
	DCI: 4-LS1-1
	DCI: MS-LS1-4
	DCI: MS-LS3-1
	DCI: MS-LS2-1
DCI: MS-LS4-6	
DCI: HS-LS3-2	
DCI: HS-LS4-2	
DCI: HS-LS4-3	
DCI: HS-LS4-4	
<b>reproductive capacity</b>	BBK
<b>reproductive system</b>	BBK
<b>reproductive value of traits</b>	BBK
<b>repulsion</b>	HS-PS1-1
	HS-PS1-3
	DCI: HS-PS2-6
<b>repulsive</b>	HS-PS2-6
	DCI: MS-PS2-3
<b>requirement</b>	K-LS1-1
	DCI: MS-LS2-1
	DCI: HS-ETS1-1
	DCI: HS-PS2-3
	DCI: HS-PS3-3
<b>requirements for life</b>	BBK
<b>reservoir</b>	5-ESS2-2
	MS-ESS3-2
<b>resilient</b>	DCI: HS-LS2-2
	DCI: HS-LS2-6
<b>resistant</b>	3-ESS3-1
	4-ESS3-2
<b>resonance</b>	HS-PS4-3

<b>resource</b>	K-ESS3-3 4-ESS3-1 5-ESS3-1 MS-ESS3-1 MS-LS2-1 HS-ESS3-2 HS-ESS3-3 HS-ESS3-4 HS-LS2-1 HS-LS4-2 HS-PS4-4 DCI: K-ESS3-1 DCI: 3-5-ETS1-1 DCI: 3-LS4-4 DCI: 4-ESS3-1 DCI: 4-PS3-4 DCI: 5-ESS3-1 DCI: MS-ESS3-1 DCI: MS-LS2-1 DCI: MS-LS2-5 DCI: MS-PS2-3 DCI: HS-ESS3-2 DCI: HS-LS2-1 DCI: HS-LS2-2 DCI: HS-LS2-6 DCI: HS-LS2-7 DCI: HS-LS4-2 DCI: HS-LS4-6 SP: MS-PS2-3		<b>reuse</b>	K-ESS3-3 HS-ESS3-2 HS-ESS3-4	<b>rock layer</b>	4-ESS1-1 MS-LS4-1		
			<b>reversible</b>	2-PS1-4 DCI: 2-PS1-4	<b>rock layer movement</b>	BBK		
			<b>revision of scientific theories</b>	BBK	<b>rock record</b>	DCI: HS-ESS1-6		
			<b>rise</b>	1-ESS1-1 MS-ESS3-5 HS-ESS2-2 HS-LS2-6 DCI: MS-ESS3-5 DCI: HS-ESS3-6	<b>rock sequences</b>	BBK		
				<b>river</b>	4-ESS1-1 5-ESS2-2 HS-ESS2-2 HS-ESS3-1 DCI: 2-ESS2-3	<b>rock strata</b>	MS-ESS1-4 DCI: MS-ESS1-4	
			<b>river delta</b>	HS-ESS3-1	<b>role</b>	MS-ESS1-2 MS-ESS3-5 MS-LS1-2 MS-LS1-6 HS-ESS1-1 HS-LS1-4 HS-LS2-3 HS-LS2-5 HS-LS2-8 HS-LS3-1 HS-LS4-1		
			<b>rock</b>	K-PS3-1 2-ESS1-1 4-ESS1-1 MS-ESS2-1 MS-ESS2-3 MS-ESS3-1 MS-PS3-1 HS-ESS1-5 HS-ESS1-6 DCI: 4-ESS2-1 DCI: 5-ESS2-1 DCI: MS-ESS2-3 DCI: HS-ESS1-5 DCI: HS-ESS1-6 DCI: HS-ESS2-1 DCI: HS-ESS2-5		<b>roll</b>	K-PS2-1 3-PS2-2 MS-PS3-1 HS-PS2-1	
				<b>rock breakage</b>		BBK	<b>root</b>	BBK K-ESS2-2 1-LS1-1 4-LS1-1 DCI: 1-LS1-1
				<b>rock characteristics</b>		BBK	<b>root development</b>	HS-LS1-3
				<b>rock composition</b>		BBK	<b>rotation</b>	MS-ESS2-6 DCI: 5-ESS1-2 DCI: HS-ESS2-4
	<b>resource availability</b>	BBK MS-LS2-1 DCI: HS-ESS3-1		<b>rock cycle</b>	BBK HS-ESS2-5	<b>Rube Goldberg device</b>	HS-PS3-3	
	<b>respiration</b>	BBK HS-LS2-3		<b>rock formation</b>	4-ESS1-1 MS-ESS1-4	<b>ruler</b>	BBK	
	<b>respiratory system</b>	BBK MS-LS1-3				<b>runoff</b>	HS-ESS2-2	
	<b>response</b>	1-LS1-2 5-PS1-3 HS-LS1-2 HS-LS1-3 DCI: MS-LS4-6 DCI: HS-ESS3-6				<b>safety</b>	HS-ETS1-3 SP: 6 DCI: HS-ESS3-2 DCI: HS-ESS3-4 DCI: HS-ETS1-3 DCI: HS-LS2-7 DCI: HS-LS4-6	
							<b>salinity</b>	DCI: MS-ESS2-6
	<b>rest</b>	HS-ESS1-6 DCI: 3-PS2-1				<b>salt water</b>	BBK	
	<b>restore</b>	DCI: 5-LS2-1						

<b>sample</b>	MS-PS3-4 DCI: MS-PS3-4
<b>satellite</b>	BBK MS-ESS3-2 HS-ESS1-4
<b>scanner</b>	DCI: HS-PS4-5
<b>sea floor</b>	HS-ESS2-1 DCI: MS-ESS2-3
<b>sea-floor spreading</b>	BBK
<b>sea level</b>	HS-ESS2-4 HS-ESS3-1 HS-ESS3-5 HS-LS2-6
<b>seamount</b>	HS-ESS2-1
<b>season</b>	3-ESS2-1 MS-ESS1-1 DCI: MS-ESS1-1
<b>seasonal</b>	5-ESS1-2 HS-LS2-6 HS-LS4-4 DCI: 1-ESS1-2
<b>seasonal changes</b>	BBK
<b>seasonal weather pattern</b>	BBK
<b>second law of thermodynamics</b>	HS-PS3-4
<b>sediment</b>	MS-ESS3-1 HS-ESS2-2 DCI: 4-ESS2-1 DCI: 5-ESS2-1
<b>sediment deposition</b>	BBK
<b>sedimentary</b>	DCI: MS-LS4-1
<b>sedimentary rock</b>	BBK
<b>sedimentation</b>	BBK MS-ESS2-1
<b>seed</b>	2-LS2-2 MS-LS1-4 MS-LS1-5 DCI: 2-LS2-2
<b>segment</b>	DCI: HS-LS3-1
<b>segregation</b>	BBK

<b>seismic wave</b>	BBK HS-ESS2-3 HS-PS4-1 DCI: HS-ESS2-3
<b>selective breeding</b>	DCI: MS-LS4-5
<b>selective gene expression</b>	BBK
<b>semiconductor</b>	BBK
<b>sense receptor</b>	MS-LS1-8 DCI: 4-LS1-2
<b>senses</b>	BBK 4-LS1-2
<b>sensory</b>	4-LS1-2 MS-LS1-8
<b>separation method [for mixtures]</b>	BBK
<b>sequence</b>	DCI: HS-LS4-1
<b>service</b>	MS-LS2-5 DCI: MS-LS2-5
<b>severe weather</b>	K-ESS3-2 MS-ESS3-2 HS-ESS3-1 DCI: K-ESS3-2
<b>sex cell</b>	BBK
<b>sex chromosome</b>	BBK
<b>sex-linked trait</b>	BBK
<b>sexual reproduction</b>	MS-LS3-2 HS-LS4-2 DCI: MS-LS3-1 DCI: HS-LS3-2 DCI: HS-LS4-2
<b>shadow</b>	5-ESS1-2 DCI: 1-PS4-3 DCI: 5-ESS1-2
<b>shared characteristic</b>	BBK
<b>shell</b>	1-LS1-1 4-ESS1-1 MS-LS1-4
<b>shelter</b>	BBK
<b>shift</b>	HS-ESS1-2 HS-LS4-3 DCI: MS-LS2-4
<b>short-term</b>	DCI: MS-ESS1-1

<b>shrub</b>	2-ESS2-1
<b>sibling</b>	3-LS3-1
<b>similarities and differences among organisms</b>	BBK
<b>simple molecule</b>	MS-PS1-1
<b>simple wave</b>	DCI: MS-PS4-1
<b>situation</b>	K-2-ETS1-1 HS-PS4-3 SP: 6 DCI: K-2-ETS1-1 DCI: K-PS2-2 DCI: 3-PS2-2 DCI: 3-PS2-3 DCI: 3-PS2-4 DCI: HS-PS1-6
<b>skeletal system</b>	BBK
<b>sketch</b>	K-2-ETS1-2 DCI: K-2-ETS1-2 DCI: K-ESS3-3 DCI: 2-LS2-2
<b>skin</b>	4-LS1-1
<b>sky</b>	BBK 1-ESS1-1 DCI: 1-ESS1-1 DCI: MS-ESS1-1
<b>slope</b>	4-ESS2-1 SP: HS-LS3-3 SP: HS-LS4-3
<b>snow</b>	DCI: K-ESS2-1
<b>social</b>	MS-LS2-5 HS-ETS1-3 CC: HS-ESS3-2 DCI: HS-ESS3-2 DCI: HS-ESS3-4 DCI: HS-ETS1-3 DCI: HS-LS2-7 DCI: HS-LS4-6

<b>societal</b>	HS-ETS1-1 SP: 1 CC: 3-5-ETS1-2 CC: 3-ESS3-1 CC: 4-ESS3-2 CC: MS-ESS3-2 CC: MS-ESS3-3 CC: MS-ETS1-1 CC: MS-LS2-5 CC: MS-PS1-3 CC: MS-PS2-1 SP: HS-ESS3-2	<b>solar heater</b>	4-PS3-4	<b>sound wave</b>	BBK 4-PS4-3 HS-PS4-1						
	<b>sodium</b>	HS-PS1-2	<b>solar oven</b>		HS-PS3-3						
	<b>sodium chloride</b>	MS-PS1-1	<b>solar radiation</b>		MS-ESS3-5	<b>South pole</b>	DCI: 5-ESS1-2				
	<b>sodium hydroxide</b>	MS-PS1-2	<b>solar system</b>		BBK MS-ESS1-2 MS-ESS1-3 MS-PS2-4 HS-ESS1-4 HS-ESS1-6 DCI: MS-ESS1-1 DCI: MS-ESS1-2 DCI: MS-ESS1-3 DCI: HS-ESS1-4 DCI: HS-ESS1-6 DCI: HS-ESS2-4	<b>space</b>	MS-ESS1-3 MS-LS1-5 MS-PS2-1 CC: MS-ESS1-3 CC: MS-ESS1-4 CC: MS-ESS2-2 CC: MS-PS1-1 DCI: 5-ESS3-1 DCI: 5-PS1-1 DCI: MS-PS2-5 DCI: MS-PS4-2 DCI: HS-ESS2-2 DCI: HS-ESS2-4 DCI: HS-PS2-4(a) DCI: HS-PS2-4(b) DCI: HS-PS2-5 DCI: HS-PS3-2				
	<b>soil</b>	BBK K-PS3-1 5-LS1-1 5-LS2-1 MS-ESS3-1 MS-LS2-5 HS-ESS2-2 HS-ESS2-5 HS-ESS2-6 HS-ESS2-7 HS-ESS3-1 HS-ESS3-2 DCI: 4-ESS2-1 DCI: 5-ESS2-1 DCI: 5-LS2-1 DCI: MS-LS2-3 DCI: HS-LS2-4			<b>solar system formation</b>		BBK	<b>space probe</b>	BBK		
		<b>soil color</b>			BBK		<b>solid</b>	<b>space weather</b>	HS-ESS1-1		
		<b>soil composition</b>			BBK			2-ESS2-3 MS-PS1-4 HS-ESS2-5 DCI: 2-PS1-1 DCI: 5-LS2-1 DCI: MS-PS1-1 DCI: MS-PS1-4	<b>spacecraft</b>	MS-ESS1-3	
		<b>soil fertility</b>			BBK			<b>solid rock</b>	BBK	<b>spatial</b>	MS-ESS2-2 HS-ESS2-1 DCI: 4-LS1-2
		<b>soil texture</b>			BBK			<b>solubility</b>	BBK 5-PS1-3 HS-ESS2-5		<b>special theory of relativity</b>
		<b>solar</b>	MS-PS3-3 HS-ESS2-4		<b>soluble</b>		Marzano Research	<b>specialized</b>	MS-LS1-3 MS-LS1-4 HS-LS1-1 DCI: 4-LS1-2 DCI: MS-LS1-3 DCI: MS-LS1-4 DCI: HS-LS1-1		
<b>solar cell</b>		HS-PS3-3 HS-PS4-5 SP: 1 DCI: HS-PS4-5	<b>sound</b>	BBK 1-PS4-1 1-PS4-4 4-PS3-2 4-PS3-4 MS-PS4-3 DCI: 1-PS4-1 DCI: 4-PS3-2 DCI: 4-PS3-3 DCI: 4-PS3-4 DCI: MS-PS4-2 DCI: HS-PS3-2 DCI: HS-PS3-3 DCI: HS-PS4-3	<b>specialized cell</b>		BBK				
		<b>solar energy</b>		DCI: HS-LS2-5	<b>specialized organ</b>		BBK				
		<b>solar flare</b>		HS-ESS1-1	<b>specialized tissue</b>		BBK				
						<b>speciation</b>	BBK DCI: HS-LS2-7				

<b>species</b>	BBK
	3-LS4-2
	MS-LS1-5
	MS-LS4-1
	MS-LS4-3
	HS-ESS3-4
	HS-LS2-7
	HS-LS4-2
	HS-LS4-5
	HS-LS4-6
	DCI: 3-LS4-2
	DCI: 5-LS2-1
	DCI: MS-ESS3-3
	DCI: MS-LS2-2
	DCI: MS-LS2-5
	DCI: MS-LS4-3
	DCI: MS-LS4-6
	DCI: HS-LS2-1
	DCI: HS-LS2-2
	DCI: HS-LS2-7
DCI: HS-LS3-1	
DCI: HS-LS4-1	
DCI: HS-LS4-2	
DCI: HS-LS4-5	
DCI: HS-LS4-6	
<b>species diversity</b>	BBK
<b>specification</b>	MS-PS2-2
	DCI: MS-ETS1-1
	DCI: MS-PS3-3
<b>spectrum</b>	HS-ESS1-2
	DCI: HS-ESS1-2
	DCI: HS-ESS1-3

<b>speed</b>	BBK
	K-PS2-2
	4-ESS2-1
	4-PS3-1
	4-PS3-3
	MS-PS2-3
	MS-PS3-1
	HS-PS4-1
	CC: MS-PS3-1
	CC: MS-PS3-4
	DCI: K-PS2-1
	DCI: K-PS2-2
	DCI: 3-PS2-1
	DCI: MS-PS3-1
	DCI: HS-PS3-1
	DCI: HS-PS4-1
	<b>speed of light</b>
<b>sperm</b>	BBK
<b>sperm cell</b>	BBK
<b>spherical</b>	5-PS2-1
<b>spontaneous</b>	DCI: MS-PS3-3
	DCI: HS-ESS1-5
	DCI: HS-ESS1-6
<b>spontaneous nuclear reaction</b>	BBK
<b>spring [coil]</b>	DCI: HS-PS3-1
<b>spring [season]</b>	1-ESS1-2
<b>square root</b>	DCI: MS-PS3-1
<b>stabilize</b>	1-LS1-1
	CC: HS-ESS2-2
	CC: HS-ESS3-4
	CC: HS-LS1-3
<b>stable</b>	HS-LS2-6
	HS-PS4-2
	CC: HS-ESS1-6
	CC: HS-ESS2-7
	CC: HS-LS2-6
	CC: HS-LS2-7
	CC: HS-PS1-6
	DCI: 5-LS2-1
	DCI: HS-LS2-2
	DCI: HS-LS2-6
	DCI: HS-PS1-4
	DCI: HS-PS3-4

<b>star</b>	BBK
	1-ESS1-1
	5-ESS1-1
	5-ESS1-2
	HS-ESS1-1
	HS-ESS1-2
	HS-ESS1-3
	DCI: 1-ESS1-1
	DCI: 5-ESS1-2
	DCI: 5-ESS1-2
	DCI: HS-ESS1-1
	DCI: HS-ESS1-2
DCI: HS-ESS1-3	
<b>star age</b>	BBK
<b>star brightness</b>	BBK
<b>star composition</b>	BBK
<b>star destruction</b>	BBK
<b>star formation</b>	BBK
<b>star size</b>	BBK
<b>star system</b>	BBK
<b>star temperature</b>	BBK
<b>star types</b>	BBK
<b>state</b>	MS-ESS1-2
	MS-ESS2-4
	MS-PS1-4
	HS-PS1-2
	DCI: MS-PS1-4
	DCI: MS-PS3-3
	DCI: MS-PS3-4
DCI: HS-PS1-1	
DCI: HS-PS1-2	
DCI: HS-PS3-4	
<b>states of matter</b>	BBK
<b>static</b>	MS-PS3-2
<b>stationary</b>	MS-PS2-1

<b>statistical</b>	MS-ESS1-3 SP: MS-ESS1-3 SP: MS-ESS2-3 SP: MS-ESS3-2 SP: MS-ETS1-3 SP: MS-LS2-1 SP: MS-LS4-1 SP: MS-LS4-3 SP: MS-PS1-2 SP: MS-PS3-1 SP: HS-ESS1-4 SP: HS-ESS2-2 SP: HS-ESS3-3 SP: HS-ESS3-5 SP: HS-ETS1-4 SP: HS-LS2-1 SP: HS-LS2-2 SP: HS-LS2-4 SP: HS-LS3-3 SP: HS-LS4-3 SP: HS-LS4-6 SP: HS-PS1-7 SP: HS-PS2-1 SP: HS-PS2-2 SP: HS-PS2-4(a) SP: HS-PS2-4(b) SP: HS-PS3-1 SP: HS-PS4-1		<b>storage of genetic information</b>	BBK	<b>structure</b>	K-PS2-2 K-PS3-2 1-LS1-1 4-LS1-1 MS-ESS2-3 MS-ESS3-4 MS-LS1-4 MS-LS3-1 MS-LS4-1 MS-LS4-2 MS-PS1-1 HS-ESS2-3 HS-LS1-1 HS-LS4-1 HS-PS1-3 HS-PS2-6 CC: K-2-ETS1-2 CC: 1-LS1-1 CC: 2-LS2-2 CC: MS-LS1-2 CC: MS-LS3-1 CC: MS-PS1-2 CC: MS-PS1-3 CC: MS-PS4-2 CC: MS-PS4-3 CC: HS-ESS2-5 CC: HS-LS1-1 CC: HS-PS2-6 DCI: 4-ESS2-2 DCI: 4-LS1-1 DCI: 5-PS1-1 DCI: MS-LS1-2 DCI: MS-LS3-1 DCI: MS-PS1-1 DCI: HS-ESS2-3 DCI: HS-LS1-1 DCI: HS-LS2-4 DCI: HS-LS3-1 DCI: HS-PS1-1 DCI: HS-PS1-3 DCI: HS-PS2-6	
			4-LS1-2 MS-PS3-2 MS-PS4-3 HS-LS1-5 HS-PS3-2 HS-PS4-2 DCI: MS-LS1-6 DCI: MS-PS1-6 DCI: MS-PS3-2 DCI: HS-ESS2-5 DCI: HS-LS1-5 DCI: HS-LS2-4 DCI: HS-LS2-5 DCI: HS-PS1-4 DCI: HS-PS1-5 DCI: HS-PS2-5 DCI: HS-PS3-2 DCI: HS-PS3-5 DCI: HS-PS4-2 DCI: HS-PS4-5				
			<b>store</b>				
			<b>stored energy</b>	BBK HS-LS2-4 DCI: 4-PS3-4 DCI: MS-LS1-7 DCI: HS-PS3-1			
	<b>status</b>	DCI: HS-LS2-2 DCI: HS-LS2-6	<b>storyboard</b>	SP: K-2-ETS1-2 SP: K-ESS3-1 SP: 2-ESS2-2 SP: 2-LS2-2			
	<b>stellar</b>	5-ESS1-1 DCI: HS-ESS1-2	<b>straight line</b>	DCI: MS-PS4-2			
	<b>stellar energy</b>	BBK	<b>straight-line motion</b>	BBK			
	<b>stem</b>	4-LS1-1 DCI: 1-LS1-1	<b>stream</b>	MS-ESS3-3 HS-ESS2-5 DCI: 5-ESS2-2 DCI: 5-ESS3-1			
	<b>stimulus</b>	MS-LS1-8 HS-LS1-2	<b>structural</b>	MS-LS3-1 SP: 5 DCI: HS-LS1-2 DCI: HS-LS3-1			
	<b>stomach</b>	4-LS1-1					
	<b>stomate</b>	HS-LS1-3					
	<b>storage</b>	MS-LS1-8 HS-PS4-2 DCI: HS-ESS2-2 DCI: HS-ESS2-4					
						<b>stunt</b>	3-LS3-2
						<b>subduction zone</b>	MS-ESS3-1
						<b>subset</b>	DCI: MS-LS3-2

<b>substance</b>	5-PS1-2 5-PS1-4 MS-PS1-2 MS-PS1-4 MS-PS1-6 HS-PS1-3 DCI: 2-PS1-4 DCI: 5-PS1-2 DCI: 5-PS1-4 DCI: MS-PS1-1 DCI: MS-PS1-2 DCI: MS-PS1-3 DCI: MS-PS1-4 DCI: MS-PS1-5			
	<b>substructure</b> CC: HS-ESS2-5 DCI: HS-PS1-1			
	<b>subsystem</b> MS-LS1-3 CC: MS-LS1-3			
	<b>subunit</b> DCI: MS-PS1-4			
	<b>success</b>	3-5-ETS1-1 HS-PS2-3 DCI: 3-5-ETS1-1 DCI: 4-PS3-4 DCI: MS-PS3-3 SP: 3-5-ETS1-1 s		
		<b>successful</b>	MS-ETS1-1 MS-ETS1-3 MS-LS1-4 DCI: MS-ETS1-1 DCI: MS-LS4-6 DCI: MS-PS3-3 SP: HS-ETS1-1	
			<b>successive</b> DCI: HS-LS1-4	
			<b>sugar</b>	5-PS1-1 MS-PS1-2 HS-LS1-6 DCI: MS-LS1-6 DCI: HS-LS1-5 DCI: HS-LS1-6
				<b>suitability</b> SP: HS-PS4-2

<b>sum</b>	MS-PS2-2 DCI: 3-PS2-1 DCI: MS-PS2-2 DCI: HS-PS1-4 DCI: HS-PS1-5
	<b>summer</b> Marzano Research
<b>sun</b>	K-PS3-2 1-ESS1-1 5-ESS1-1 5-ESS1-2 5-PS3-1 MS-ESS2-4 MS-PS2-4 HS-ESS1-1 DCI: 5-ESS1-1 DCI: 5-ESS1-2 DCI: 5-PS2-4 DCI: 5-PS3-1 DCI: MS-ESS1-1 DCI: MS-ESS1-2 DCI: MS-ESS1-3 DCI: MS-ESS2-1 DCI: MS-ESS2-6 DCI: HS-ESS1-4 DCI: HS-ESS2-4 DCI: HS-PS4-5
	<b>sun's position</b> BBK
	<b>sun's radiation</b> BBK
	<b>sun's size</b> BBK

<b>sunlight</b>	BBK K-ESS3-1 K-PS3-1 K-PS3-2 2-LS2-1 4-ESS3-1 MS-ESS2-6 HS-ESS2-2 DCI: K-ESS2-1 DCI: K-PS3-1 DCI: K-PS3-2 DCI: 1-ESS1-1 DCI: MS-ESS1-1 DCI: MS-ESS2-4 DCI: MS-ESS2-6 DCI: MS-LS1-6 DCI: HS-ESS1-1 DCI: HS-ESS1-4 DCI: HS-ESS2-4 DCI: HS-ESS2-5	
	<b>sunspot</b> HS-ESS1-1	
	<b>superconductor</b> BBK	
	<b>supernova</b> DCI: HS-ESS1-2 DCI: HS-ESS1-3	
	<b>supply</b> DCI: HS-ETS1-1 DCI: HS-LS4-2	
	<b>support</b>	K-ESS2-2 3-LS3-2 4-ESS1-1 4-LS1-1 5-ESS1-1 5-LS1-1 5-PS2-1 MS-ESS3-4 MS-LS1-3 MS-LS1-4 MS-LS1-7 MS-LS2-4 MS-LS4-6 MS-PS2-4 MS-PS3-5 MS-PS4-3 HS-LS1-6 HS-LS2-1 HS-LS2-2

<b>support (cont'd)</b>	HS-LS2-4	<b>support</b>	SP: 4-ESS2-1	<b>support</b>	SP: HS-LS1-1
	HS-LS2-8		SP: 4-PS3-2		SP: HS-LS1-6
	HS-LS3-2		SP: 5-ESS1-1		SP: HS-LS2-1
	HS-LS4-1		SP: 5-LS1-1		SP: HS-LS2-2
	HS-LS4-3		SP: 5-PS1-3		SP: HS-LS2-3
	HS-LS4-5		SP: 5-PS1-4		SP: HS-LS2-4
	HS-PS1-7		SP: MS-ESS1-4		SP: HS-LS2-7
	HS-PS2-1		SP: MS-ESS2-2		SP: HS-LS4-2
	HS-PS2-2		SP: MS-ESS2-5		SP: HS-LS4-4
	HS-PS4-1		SP: MS-ESS3-1		SP: HS-PS1-2
	HS-PS4-3		SP: MS-ESS3-3		SP: HS-PS1-5
	CC: K-PS2-1		SP: MS-ESS3-4		SP: HS-PS1-6
	CC: K-PS2-2		SP: MS-ETS1-2		SP: HS-PS1-7
	CC: 1-PS4-1		SP: MS-LS1-1		SP: HS-PS2-3
	CC: 1-PS4-2		SP: MS-LS1-3		SP: HS-PS3-3
	CC: 1-PS4-3		SP: MS-LS1-4		SP: HS-PS4-1
	CC: 2-PS1-2		SP: MS-LS1-5		<b>suppression</b>
	CC: 4-ESS1-1		SP: MS-LS1-6		DCI: MS-LS4-4
	CC: 4-ESS2-2		SP: MS-LS1-8		<b>surface</b>
	CC: HS-ESS2-4		SP: MS-LS2-2		
	CC: HS-ESS3-5		SP: MS-LS2-4		
	DCI: 5-ESS2-1		SP: MS-LS2-5		
	DCI: MS-LS1-7		SP: MS-LS4-2		
	DCI: MS-LS4-6		SP: MS-LS4-4		
	DCI: HS-ESS1-2		SP: MS-LS4-5		
	DCI: HS-ESS3-3		SP: MS-LS4-6		
	DCI: HS-LS2-1		SP: MS-PS1-3		
	DCI: HS-LS2-2		SP: MS-PS1-6		
	DCI: HS-LS2-7		SP: MS-PS2-1		
	DCI: HS-LS4-6		SP: MS-PS2-2		
	SP: K-ESS2-2		SP: MS-PS2-4		
	SP: K-PS2-1		SP: MS-PS2-5		
	SP: K-PS3-1		SP: MS-PS3-3		
	SP: 1-ESS1-2		SP: MS-PS3-4		
	SP: 1-PS4-1		SP: MS-PS3-5		
	SP: 1-PS4-3		SP: MS-PS4-1		
	SP: 2-LS2-1		SP: HS-ESS1-2		
SP: 2-LS4-1	SP: HS-ESS1-6				
SP: 2-PS1-1	SP: HS-ESS2-4				
SP: 2-PS1-4	SP: HS-ESS3-1				
SP: 3-5-ETS1-3	SP: HS-ESS3-4				
SP: 3-LS3-2	SP: HS-ESS3-5				
SP: 3-PS2-1	SP: HS-ESS3-6				
SP: 3-PS2-2	SP: HS-ETS1-2				
SP: 4-ESS1-1	SP: HS-ETS1-3				
		<b>surface area of reactants</b>	BBK		
		<b>surface feature</b>	MS-ESS1-3 DCI: MS-ESS2-2		
		<b>surface mining</b>	4-ESS3-1 HS-ESS3-4		
		<b>surface runoff</b>	BBK		
		<b>surface tension</b>	HS-PS1-3		



<b>surrounding</b>	K-ESS3-1 DCI: 4-PS3-2 DCI: 4-PS3-3 DCI: HS-LS1-7 DCI: HS-PS3-3 DCI: HS-PS3-4
<b>survival</b>	4-LS1-1 HS-LS4-2 DCI: 1-LS1-1 DCI: 4-LS1-1 DCI: MS-LS2-2 DCI: HS-LS4-6 DCI: HS-LS2-7 DCI: HS-LS2-8 DCI: HS-LS4-3 DCI: HS-LS4-4
<b>survival of organisms</b>	BBK
<b>survival value of traits</b>	BBK
<b>survive</b>	K-LS1-1 1-LS1-1 1-LS1-2 3-LS2-1 3-LS4-2 3-LS4-3 MS-LS4-4 HS-LS2-8 HS-LS4-2 DCI: 1-LS1-1 DCI: 3-LS4-2 DCI: 3-LS4-3 DCI: 3-LS4-4 DCI: 5-LS2-1 DCI: HS-LS4-2 DCI: HS-LS4-3 DCI: HS-LS4-4 DCI: HS-LS4-5
<b>sustain</b>	DCI: HS-LS2-7 DCI: HS-LS4-6
<b>sustainability</b>	HS-ESS3-3 DCI: HS-ESS3-3
<b>swarm</b>	HS-LS2-8
<b>swing</b>	3-PS2-2
<b>synthetic</b>	MS-PS1-3

<b>synthetic polymer</b>	BBK
<b>system level</b>	HS-LS1-2
<b>systematic</b>	MS-ETS1-2 SP: 3 SP: 6 SP: 7 DCI: MS-ETS1-2 DCI: MS-ETS1-3 DCI: MS-LS2-5 DCI: MS-PS3-3 DCI: HS-ETS1-2 DCI: HS-PS1-6 DCI: HS-PS2-3
<b>tar sand</b>	HS-ESS3-2
<b>taxonomy</b>	BBK
<b>teamwork</b>	BBK
<b>technical</b>	MS-PS4-3 HS-PS2-6 HS-PS4-5 SP: MS-PS4-3 SP: HS-PS2-6 SP: HS-PS4-4 SP: HS-PS4-5
<b>tectonic</b>	Marzano Research
<b>tectonic cycle</b>	DCI: HS-ESS2-4
<b>tectonic process</b>	DCI: MS-ESS2-3
<b>tectonic uplift</b>	HS-ESS2-1
<b>telescope</b>	BBK MS-ESS1-3

<b>temperature</b>	BBK 2-PS1-4 3-ESS2-1 3-LS4-4 MS-ESS2-5 MS-ESS3-5 MS-PS1-4 MS-PS3-4 MS-PS3-5 HS-ESS2-2 HS-ESS2-4 HS-ESS2-5 HS-ESS3-1 HS-ESS3-4 HS-ESS3-5 HS-LS1-3 HS-LS4-4 HS-PS1-5 HS-PS3-4 CC: 5-PS1-2 CC: 5-PS1-3 DCI: K-ESS2-1 DCI: 2-PS1-1 DCI: 3-LS4-4 DCI: MS-ESS2-5 DCI: MS-ESS2-6 DCI: MS-PS1-4 DCI: MS-PS3-3 DCI: MS-PS3-4 DCI: HS-ESS3-6 DCI: HS-LS1-7
<b>temporal</b>	HS-ESS2-1
<b>tension</b>	DCI: HS-LS2-1 DCI: HS-LS2-2
<b>terrestrial</b>	DCI: MS-LS2-3 DCI: MS-LS2-5
<b>test results</b>	SP: 7 DCI: MS-ETS1-4 DCI: MS-PS1-6 DCI: MS-PS3-3
<b>testable</b>	SP: HS-ETS1-1 SP: HS-LS3-1 SP: HS-PS4-2
<b>texture</b>	2-PS1-1 2-PS1-2

<b>thaw</b>	4-ESS2-1	<b>tolerance</b>	BBK CC: MS-LS1-3		4-LS1-2 4-PS3-2 4-PS4-3 MS-ESS2-6 MS-LS1-4 MS-PS1-6 MS-PS3-4 MS-PS3-5 HS-PS4-2 CC: 4-PS3-1 CC: 4-PS3-2 CC: 4-PS3-3 CC: 4-PS3-4 CC: 5-PS3-1 DCI: 4-PS3-2 DCI: 4-PS3-3 DCI: 4-PS3-4 DCI: MS-LS2-3 DCI: MS-LS3-2 DCI: MS-PS1-4 DCI: MS-PS3-2 DCI: MS-PS3-4 DCI: MS-PS3-4 DCI: MS-PS3-4 DCI: MS-PS3-4	
<b>theoretical model</b>	BBK	<b>topographic map</b>	4-ESS2-2			
<b>thermal</b>	HS-ESS2-3 DCI: HS-ESS2-3	<b>tornado</b>	MS-ESS3-2			
<b>thermal conductivity</b>	5-PS1-3	<b>torque</b>	BBK			
<b>thermal energy</b>	MS-PS1-4 MS-PS1-6 MS-PS3-3 HS-PS3-2 HS-PS3-4	<b>tradeoff</b>	SP: HS-ESS3-4 SP: HS-ETS1-2 SP: HS-ETS1-3 SP: HS-LS2-7 SP: HS-PS1-6 SP: HS-PS3-3			
	CC: MS-PS3-5 DCI: MS-PS1-4 DCI: HS-PS3-2 DCI: HS-PS3-3 DCI: HS-PS3-4 DCI: HS-PS4-4		3-LS3-1 3-LS3-2 MS-LS4-4 MS-LS4-5 MS-LS4-6 HS-LS3-1 HS-LS3-3 HS-LS4-3 HS-LS4-5 DCI: 3-LS3-2 DCI: MS-LS3-1 DCI: MS-LS3-2 DCI: MS-LS4-4 DCI: MS-LS4-5 DCI: MS-LS4-6 DCI: HS-LS3-2 DCI: HS-LS3-3 DCI: HS-LS4-2 DCI: HS-LS4-3 DCI: HS-LS4-4			
	<b>thermal equilibrium</b>		BBK			
	<b>thermodynamics</b>		HS-PS3-4			
	<b>thermometer</b>		BBK			
	<b>thorn</b>		1-LS1-1 3-LS4-2 4-LS1-1	<b>trait</b>		
<b>threaten</b>		HS-LS4-6 DCI: HS-LS2-7				
<b>threatened species</b>		HS-LS4-6				
<b>tide</b>	BBK	<b>transfer (noun)</b>	MS-ESS2-6 MS-PS1-6 MS-PS3-3 MS-PS3-5 HS-LS1-5 HS-LS1-7 HS-LS2-4 HS-PS3-4 CC: MS-ESS2-4 CC: MS-LS1-6 CC: MS-LS2-3 CC: MS-PS1-6 CC: MS-PS3-3 DCI: MS-PS1-4	<b>transfer system</b>	DCI: HS-LS1-7	
<b>tilt</b>	DCI: MS-ESS1-1 DCI: HS-ESS2-4				<b>transform</b>	HS-LS1-5 DCI: 3-LS4-4 DCI: 4-PS3-2 DCI: 4-PS3-4
<b>tilted</b>	DCI: MS-ESS1-1				<b>transform matter and/or energy</b>	BBK
<b>time period</b>	CC: 3-LS4-1 DCI: 2-ESS1-1				<b>transformation</b>	HS-LS1-5 HS-PS1-8 DCI: HS-PS2-6
<b>time scale</b>	2-ESS1-1 MS-ESS1-4 HS-ESS2-4 DCI: MS-ESS1-4 DCI: HS-ESS2-4				<b>transition</b>	BBK
	<b>tissue</b>		BBK MS-LS1-3 HS-LS1-2 HS-PS4-4 DCI: MS-LS1-3 DCI: HS-LS1-4			<b>translucent</b>
				<b>transmission</b>	MS-LS3-2 HS-PS4-2	

<b>transmit</b>	MS-PS4-2 MS-PS4-3 HS-PS4-5 DCI: 4-PS4-3 DCI: MS-LS1-8 DCI: MS-PS4-2 DCI: MS-PS4-3 DCI: HS-ESS2-5 DCI: HS-PS2-5 DCI: HS-PS4-5
<b>transparent</b>	1-PS4-3 DCI: MS-PS4-2
<b>transpiration</b>	DCI: MS-ESS2-4
<b>transport</b>	HS-ESS2-2 CC: 5-LS1-1 DCI: HS-ESS2-5 DCI: HS-LS1-7 DCI: HS-PS3-1 DCI: HS-PS3-4
<b>transport matter and/or energy</b>	BBK
<b>transport of cell materials</b>	BBK
<b>transportation</b>	HS-ESS2-5
<b>tree</b>	K-ESS2-2 K-ESS3-3 2-ESS2-1
<b>trend</b>	MS-LS4-6 HS-LS2-2 HS-PS1-2
<b>trial</b>	SP: 3-5-ETS1-3 SP: 3-ESS2-1 SP: 3-LS3-1 SP: 3-LS4-1 SP: 3-PS2-1 SP: 4-ESS2-2 SP: 5-ESS1-2 SP: 5-PS1-4 SP: HS-ESS2-5 SP: HS-LS1-3 SP: HS-PS1-3 SP: HS-PS2-5 SP: HS-PS3-4

<b>trigonometric</b>	SP: HS-ESS1-4 SP: HS-ESS3-3 SP: HS-ESS3-6 SP: HS-ETS1-4 SP: HS-LS2-1 SP: HS-LS2-2 SP: HS-LS2-4 SP: HS-LS4-6 SP: HS-PS1-7 SP: HS-PS2-2 SP: HS-PS2-4(a) SP: HS-PS2-4(b) SP: HS-PS3-1 SP: HS-PS4-1
<b>trophic level</b>	HS-LS2-4
<b>trough</b>	DCI: HS-PS4-3
<b>tsunami</b>	MS-ESS3-2 HS-ESS3-1 DCI: 4-ESS3-2
<b>tuning fork</b>	1-PS4-1
<b>typical</b>	3-ESS2-1 MS-ESS3-1 DCI: 3-ESS2-2 DCI: 3-PS2-1 DCI: 4-PS3-2 DCI: 4-PS3-3 DCI: 4-PS3-4 DCI: MS-ESS3-3 DCI: MS-ESS3-4
<b>ultraviolet</b>	DCI: HS-PS4-4
<b>ultraviolet radiation</b>	BBK
<b>unanticipated</b>	SP: HS-PS1-5 SP: HS-PS2-3
<b>unbalanced force</b>	BBK 3-PS2-1 MS-PS2-2 HS-PS2-1
<b>uncontrolled system</b>	DCI: HS-PS3-4
<b>underground</b>	DCI: 5-ESS2-2 DCI: MS-ESS2-2
<b>unequal heating of air</b>	BBK
<b>unequal heating of land masses</b>	BBK

<b>unequal heating of oceans</b>	BBK
<b>unicellular</b>	BBK DCI: MS-LS1-1
<b>uniform</b>	HS-PS3-4 DCI: HS-PS3-4
<b>unique</b>	3-LS1-1 DCI: 3-LS1-1 HS-ESS2-5
<b>unit</b>	MS-PS2-2 CC: 5-ESS2-2 CC: 5-PS1-2 CC: 5-PS1-3 DCI: MS-LS1-1 DCI: MS-PS2-2
<b>unity of life</b>	BBK
<b>universal solvent</b>	BBK
<b>universe</b>	BBK HS-ESS1-2 CC: HS-ESS1-2 CC: HS-PS1-7 CC: HS-PS3-1 DCI: 1-ESS1-1 DCI: 5-ESS1-1 DCI: MS-ESS1-1 DCI: MS-ESS1-2 DCI: HS-ESS1-2
<b>unstable</b>	DCI: HS-ESS2-3 DCI: HS-PS1-8
<b>urban development</b>	MS-ESS3-3 HS-ESS3-4
<b>urban planning</b>	HS-ESS3-3
<b>urbanization</b>	HS-LS2-7
<b>vacuole</b>	BBK
<b>vacuum</b>	HS-PS4-1
<b>valley</b>	HS-ESS2-1
<b>vapor</b>	HS-PS1-3
<b>variant</b>	DCI: MS-LS3-1 DCI: HS-LS1-4

<b>variation</b>	3-LS3-1 3-LS4-2 HS-ESS1-1 HS-ESS2-4 HS-ESS2-5 HS-LS3-2 HS-LS3-3 DCI: MS-ESS2-2 DCI: MS-LS3-1 DCI: MS-PS1-4 DCI: HS-LS3-2 DCI: HS-LS3-3 DCI: HS-LS4-2 DCI: HS-LS4-3	<b>vegetation</b>  <b>vehicle</b>  <b>velocity</b>  <b>version</b> <b>vertebrate</b>  <b>vibrate</b>  <b>vibration</b>  <b>viscosity</b>  <b>visible</b> <b>visible light</b> <b>visual</b> <b>vocalization</b>  <b>volcanic activity</b>  <b>volcanic ash cloud</b>  <b>volcanic eruption</b>  <b>volcano</b>  <b>volume</b>	4-ESS2-1 HS-ESS2-2 DCI: 5-ESS3-1 DCI: HS-ESS2-4	<b>vulnerability</b> <b>warm (adjective)</b> <b>warm (verb)</b> <b>waste</b> <b>waste management</b> <b>waste matter</b> <b>water capacity</b> <b>water cycle</b> <b>water purification</b> <b>water usage</b> <b>water wave</b>  <b>wave</b>  <b>wave packet</b> <b>wave peaks</b>  <b>wave pulse</b>  <b>wave source</b>  <b>wavelength</b>	DCI: MS-ESS3-5 K-ESS2-1 K-PS3-2 DCI: K-PS3-1 DCI: K-PS3-2 DCI: HS-ESS3-4 HS-ESS3-3 DCI: 5-LS2-1 BBK BBK MS-LS2-5 DCI: MS-LS2-5 MS-ESS3-3 BBK DCI: MS-PS4-2 4-PS4-1 MS-PS4-1 MS-PS4-2 MS-PS4-3 HS-PS4-1 HS-PS4-3 HS-PS4-5 DCI: 4-PS4-1 DCI: MS-PS4-1 DCI: MS-PS4-2 DCI: HS-ESS2-3 DCI: HS-PS4-3 DCI: HS-PS4-4 DCI: HS-PS4-5 BBK DCI: 4-PS4-1 MS-PS4-3 DCI: MS-PS4-3 DCI: HS-PS4-2 DCI: HS-PS4-5 BBK BBK 4-PS4-1 HS-PS4-1 DCI: MS-PS4-1 DCI: MS-PS4-2 DCI: HS-PS4-1 DCI: HS-PS4-4	
	<b>variety</b>		2-LS4-1 HS-ESS2-5 SP: 1 SP: 2 DCI: 1-PS4-4 DCI: 2-PS1-3 DCI: 3-ESS3-1 DCI: 3-LS4-4 DCI: 4-ESS3-2 DCI: 5-ESS2-1 DCI: 5-PS1-3 DCI: MS-LS1-4 DCI: MS-LS2-5 DCI: HS-ESS2-4 DCI: HS-ETS1-4 DCI: HS-LS4-6 SP: 3-PS2-1 SP: 5-ESS2-2 SP: 5-PS1-2 SP: HS-ESS1-2 SP: HS-ESS3-1 SP: HS-LS1-1 SP: HS-LS1-6 SP: HS-LS2-3 SP: HS-LS4-2 SP: HS-LS4-4 SP: HS-PS1-2		4-ESS2-1 MS-PS2-1 HS-PS2-1 DCI: HS-PS2-2 DCI: MS-LS3-2 BBK 1-PS4-1 DCI: 1-PS4-1 DCI: MS-PS1-4 BBK BBK DCI: HS-ESS2-5 1-ESS1-1 5-ESS1-2 BBK SP: MS-PS4-3 MS-LS1-4 4-ESS3-2 MS-ESS3-1 MS-ESS3-5 DCI: HS-ESS2-4 DCI: HS-ESS2-4 BBK MS-ESS1-4 MS-ESS3-2 HS-ESS2-4 HS-ESS3-1 HS-LS2-6 DCI: 4-ESS3-2 4-ESS2-2 MS-ESS1-3 MS-ESS2-2 DCI: 4-ESS2-2 4-ESS2-1 MS-PS3-4 HS-ESS3-5 CC: 5-ESS2-2 CC: 5-PS1-2 CC: 5-PS1-3 SP: 5-ESS2-2	DCI: MS-ESS3-5 K-ESS2-1 K-PS3-2 DCI: K-PS3-1 DCI: K-PS3-2 DCI: HS-ESS3-4 HS-ESS3-3 DCI: 5-LS2-1 BBK BBK MS-LS2-5 DCI: MS-LS2-5 MS-ESS3-3 BBK DCI: MS-PS4-2 4-PS4-1 MS-PS4-1 MS-PS4-2 MS-PS4-3 HS-PS4-1 HS-PS4-3 HS-PS4-5 DCI: 4-PS4-1 DCI: MS-PS4-1 DCI: MS-PS4-2 DCI: HS-ESS2-3 DCI: HS-PS4-3 DCI: HS-PS4-4 DCI: HS-PS4-5 BBK DCI: 4-PS4-1 MS-PS4-3 DCI: MS-PS4-3 DCI: HS-PS4-2 DCI: HS-PS4-5 BBK BBK 4-PS4-1 HS-PS4-1 DCI: MS-PS4-1 DCI: MS-PS4-2 DCI: HS-PS4-1 DCI: HS-PS4-4
			<b>vast</b>		CC: HS-ESS1-2 CC: HS-PS1-7 CC: HS-PS3-1	

<b>weather</b>	BBK K-ESS2-1 3-ESS3-1 5-ESS2-1 MS-ESS2-1 MS-ESS2-5 DCI: K-ESS2-1 DCI: 3-ESS2-1 DCI: 3-ESS2-2 DCI: 5-ESS2-1 DCI: MS-ESS2-5
<b>weather condition</b>	3-ESS2-1 MS-ESS2-5
<b>weather forecasting</b>	K-ESS3-2
<b>weather map</b>	MS-ESS2-5
<b>weather patterns</b>	BBK DCI: MS-ESS2-5
<b>weather scientist</b>	DCI: K-ESS3-2
<b>weathered rock</b>	BBK
<b>weathering</b>	BBK 4-ESS2-1 MS-ESS2-1 MS-ESS2-2 MS-ESS3-1 HS-ESS2-1 HS-ESS2-5 HS-ESS2-7 DCI: MS-ESS2-2
<b>wedge</b>	HS-ESS2-5
<b>week</b>	BBK
<b>weight</b>	BBK 5-PS1-2 CC: 5-ESS2-2 CC: 5-PS1-2 CC: 5-PS1-3 DCI: 5-PS1-2 SP: 5-PS1-2
<b>weight of subatomic particles</b>	BBK
<b>wetland</b>	MS-ESS3-3 HS-ESS2-2 DCI: 5-ESS2-2
<b>Wi-Fi device</b>	MS-PS4-3

<b>wind</b>	BBK 2-ESS2-1 3-ESS2-1 3-ESS3-1 4-ESS2-1 4-ESS3-1 5-ESS2-1 MS-ESS2-2 MS-ESS2-5 MS-ESS2-6 DCI: K-ESS2-1 DCI: 2-ESS2-1 DCI: 4-ESS2-1 DCI: 5-ESS2-1 DCI: MS-ESS2-5
<b>wind patterns</b>	BBK
<b>wind turbine</b>	HS-PS3-3
<b>windbreak</b>	2-ESS2-1
<b>winter</b>	1-ESS1-2
<b>wire</b>	4-PS4-1 MS-PS2-3
<b>x-ray</b>	BBK DCI: HS-PS4-4
<b>year</b>	BBK
<b>zigzag motion</b>	BBK
<b>zinc</b>	MS-PS1-2