

Student Learning Goals: Mathematics

Collaborating in a Community of Readers and Writers

Contributing to Our Community	I contribute to maintaining a classroom community that feels safe, where everyone is able to take risks and grow.
Collaborating Effectively	I work with partners and groups in ways that are both respectful and risk-taking.
Participating Thoughtfully	I make my thinking count in discussions, as a speaker and a listener. I share my reading confusions and understandings to get and give help. I listen and learn from the reading confusions and understandings of others.
Building a Literacy Context	I understand and use the shared literacy vocabulary of our classroom.
Being Open to New Ideas	I appreciate and evaluate alternative viewpoints.
Developing a Literacy Agenda	I read to understand how literacy opens and closes doors in people's lives.
Sharing Books	I talk about books I am reading to involve others in what the books have to offer.
Writing to Communicate	I write to communicate my ideas to others.

Building Personal Engagement

Knowing My Reader Identity	I am aware of my reading preferences, habits, strengths, weaknesses, and attitudes—my Reader Identity.
Practicing	I put effort into practicing new reading strategies so that they become automatic.
Digging In	I am increasing my confidence and persistence for digging into text that seems difficult or boring.
Building Silent Reading Fluency	I read more smoothly and quickly, so I get more pages read.
Building Oral Reading Fluency	I read aloud more fluently and expressively.
Increasing Stamina	I set and meet stretch goals to read for longer and longer periods.
Increasing Range	I set and meet stretch goals for extending the range of what I read.
Choosing Books (SSR+)	I use tools I have learned for choosing a book that's right for me.
Taking Power	I read to understand how what I read applies to me and gives me power.
Reflecting on My Evolving Reader Identity	I reflect in discussions and in writing on my growth as a reader—my evolving Reader Identity.
Writing to Reflect	I use writing to step back and think about what I am learning.

Making Thinking Visible

Monitoring	I monitor my reading processes and identify problems.
Repairing Comprehension	I know what strategies to use to get back on track.
Talking to Understand Reading	I talk about my reading processes to understand them better.
Writing to Understand Reading	I write about my reading processes to understand them better.

Using Cognitive Strategies to Increase Comprehension: Mathematics

Setting a Reading Purpose	I set a purpose for reading a text and keep it in mind while I read.
Choosing a Reading Process	I vary my reading process to fit my reading purpose.
Previewing	I preview text that is long or appears to be challenging, to mobilize strategies for dealing with it.
Identifying and Evaluating Roadblocks	I identify specific reading roadblocks and decide what to do.
Tolerating Ambiguity	I tolerate ambiguity or confusion in understanding a text while I work on making sense of it.
Clarifying	I work to clear up a reading confusion, whether it is a word, a sentence, an idea, or missing background information that I need to find.
Using Context	I use context to clarify confusions by reading on and rereading.
Making Connections	I make connections from texts to my experience and knowledge.
Chunking	I break difficult text into smaller pieces to better understand the whole.
Visualizing	I try to see in my mind what the text is describing. I read and create numerical representations to help clarify complex mathematical text and ideas.
Questioning	I ask myself questions when I don't understand. I ask myself questions about the text, and I know where to find the answers—whether in my mind, the text, other texts, other people, or a combination of these. I ask inquiry questions when something I read makes me want to know more.
Predicting	I use what I understand in the reading to predict what a reasonable answer might be.
Organizing Ideas and Information	I use graphic organizers to sort out ideas or items of information to see how they are related.
Paraphrasing	I restate a sentence or an idea from a text in my own words.
Getting the Gist	I read and answer in my own words the question, "What do I know so far?"

Summarizing	I boil down what I read to the key points.
Sequencing	I order the steps in solving a problem.
Comparing and Contrasting	I make comparisons to identify similarities and differences.
Identifying Cause and Effect	I find conditions or events that contribute to or cause particular outcomes.
Using Evidence	I use evidence to build and support my understanding of texts and concepts.
Rereading	I reread to build understanding and fluency with mathematical language and processes.
Writing to Clarify Understanding	I write about what I think I know to make it clearer to myself.

Building Knowledge: Mathematics

Mobilizing Schema	I use my relevant networks of background knowledge, or schema, so that new information has something to connect to and is easier to understand.
Building and Revising Schema	I add to and revise my schema as I learn more.
Synthesizing	I look for relationships among my ideas, ideas from texts, and ideas from discussions.
Writing to Consolidate Knowledge	I use writing to capture and lock in new knowledge.

Building Knowledge . . . About Text: Mathematics

Text Structure	I use my knowledge of text structures to predict how ideas are organized.
Text Features	I use my knowledge of text features like headings and graphics to support my understanding.
Text Density	Because I know that mathematics text is often tightly packed with new terms and ideas, I preview and reread it. Because I know that mathematics text is often tightly packed with new terms and ideas, I chunk and restate the chunks in familiar language to keep track of the gist as I read.

Building Knowledge . . . About Language: Mathematics

Word Analysis	I use my knowledge of word roots, prefixes, and suffixes to figure out new words.
Referents	I use my knowledge of pronouns and other referents to find and substitute the word a pronoun or other word is standing for.
Signal Words and Punctuation (Text Signals)	I use my knowledge of signal words and punctuation to predict a definition, results or conclusions, examples, sequence, comparison, contrast, a list, or an answer.

Contextual Redefinition	I know that when familiar terms are used in unfamiliar ways, I can redefine them in context to clear up confusion.
Sentence Structure	I use my knowledge of sentence structure to help me understand difficult text.
Word-Learning Strategies List	I use strategies to learn new words in the texts I read.

Building Knowledge . . . About the Discipline of Mathematics

Conceptual Categories*	I can identify the purpose for and use different areas of math knowledge such as number, algebra, functions, geometry, statistics and probability, and modeling.
Mathematical Reasoning	I can think interchangeably about a math problem in abstract and quantitative terms. I monitor the reasonableness of the relationship between my abstract and quantitative thinking.
Mathematical Representation	I can read and represent mathematics with words, formulas, and mathematical symbols. I can read and create diagrams, tables, graphs, and flowcharts for mathematical purposes.
Mathematical Language	I understand the precise nature of mathematical language and use it to communicate exactly.
Problem Identification	I can read and identify “the problem” in a math problem.
Problem Solving	I make conjectures about and evaluate alternative approaches to a problem and then monitor the reasonableness of a solution approach as it proceeds.
Accuracy	I understand that in mathematics there may be alternate approaches to a solution, but only one correct answer. I check that the final solution makes sense and all computation is correct.
Pattern Application	I look for mathematical structures, approaches, and patterns that I can apply to the solution of new problems.
Mathematical Identity	I am aware of my evolving identity as a reader and user of mathematics.

*These conceptual categories are drawn from the Common Core State Standards for Mathematical Practice.