



PARENTS' GUIDE TO Student Success

6TH GRADE

This guide provides an overview of what your child will learn by the end of 6th grade in mathematics and English language arts/literacy. It focuses on the key skills your child will learn in these subjects, which will build a strong foundation for success in the other subjects he or she studies throughout the school year. This guide is based on the new Common Core State Standards, which have been adopted by more than 40 states. These K–12 standards are informed by the highest state standards from across the country. If your child is meeting the expectations outlined in these standards, he or she will be well prepared for 7th grade.

WHY ARE ACADEMIC STANDARDS IMPORTANT?

Academic standards are important because they help ensure that all students, no matter where they live, are prepared for success in college and the workforce. They help set clear and consistent expectations for students, parents, and teachers; build your child's knowledge and skills; and help set high goals for all students.

Of course, high standards are not the only thing needed for our children's success. But standards provide an important first step — a clear roadmap for learning for teachers, parents, and students. Having clearly defined goals helps families and teachers work together to ensure that students succeed. Standards help parents and teachers know when students need extra assistance or when they need to be challenged even more. They also will help your child develop critical thinking skills that will prepare him or her for college and career.

HOW CAN I HELP MY CHILD?

You should use this guide to help build a relationship with your child's teacher. You can do this by talking to his or her teacher regularly about how your child is doing — beyond parent-teacher conferences.

At home, you can play an important role in setting high expectations and supporting your child in meeting them. If your child needs a little extra help or wants to learn more about a subject, work with his or her teacher to identify opportunities for tutoring, to get involved in clubs after school, or to find other resources.

THIS GUIDE INCLUDES

- An overview of some of the key things your child will learn in English/literacy and math in 6th grade
- Ideas for activities to help your child learn at home
- Topics of discussion for talking to your child's teacher about his or her academic progress

English Language Arts & Literacy

In 6th grade, students apply skills they learned in earlier grades to make sense of longer, more challenging books and articles. That includes learning about how authors try to influence readers and find reasons to support their ideas. Focusing on how authors make their points and support their arguments with evidence and reasoning helps 6th grade students sharpen their ability to write and speak with more clarity and coherence. Students also will expand their vocabularies and use new words in their stories, reports, and essays. To meet these literacy goals, students must devote significant attention to precise details in their reading and when writing.

A Sample of What Your Child Will Be Working on in 6th Grade

- Analyzing how chapters of a book, scenes of a play, or stanzas of a poem fit into the overall structure of the piece and contribute to the development of ideas or themes
- Gaining knowledge from materials that make extensive use of elaborate diagrams and data to convey information and illustrate concepts
- Evaluating the argument and specific claims in written materials or a speech, and distinguishing claims that are supported by reasons and evidence from claims that are not
- Presenting claims and findings to others orally, sequencing ideas logically, and accentuating main ideas or themes
- Writing arguments that provide clear reasons and relevant evidence, using credible sources
- Writing brief reports that examine a topic, have a clear focus, and include relevant facts, details, and quotations
- Conducting short research projects to answer a question, drawing on several sources and sharpening the focus based on the research findings
- Reviewing and paraphrasing key ideas and multiple perspectives of a speaker
- Recognizing variations from standard English in his or her own and others' writing and speaking, and using this knowledge to improve language use
- Determining the correct meaning of a word based on the context in which it is used (e.g., the rest of the sentence or paragraph; a word's position or function in a sentence)

Talking to Your Child's Teacher

Keeping the conversation focused.

When you talk to the teacher, do not worry about covering everything. Instead, keep the conversation focused on the most important topics. In 6th grade, these include:

- Reading closely and citing evidence from grade-level fiction and nonfiction to support an analysis of what the materials say
- Developing a rich vocabulary of complex and sophisticated words and using them to speak and write more precisely and coherently

Ask to see a sample of your child's work. Ask the teacher questions such as: Is this piece of work satisfactory? How could it be better? Is my child on track? How can I help my child improve or excel in this area? If my child needs extra support or wants to learn more about a subject, are there resources to help his or her learning outside the classroom?

Mathematics

The skills and understanding that your child will gain during 6th grade are among the most important foundations for college and career readiness. These include working with ratios and rates and working with variables and variable expressions — the building blocks of algebra. Many of this year’s topics will remain a major emphasis throughout the middle school years and into high school.

A Sample of What Your Child Will Be Working on in 6th Grade

- Understanding ratios and rates, and solving problems involving proportional relationships (e.g., if it took 7 hours to mow 4 lawns, then at that rate, how many lawns could be mowed in 35 hours? At what rate were lawns being mowed?)
- Dividing fractions and solving related word problems (e.g., how wide is a rectangular strip of land with length $\frac{3}{4}$ mile and area $\frac{1}{2}$ square mile?)
- Using positive and negative numbers together to describe quantities; understanding the ordering and absolute values of positive and negative numbers
- Working with variables and expressions by generalizing the way numbers work (e.g., when adding numbers, the order doesn’t matter, so $x + y = y + x$; likewise, properties of addition and multiplication can be used to rewrite $24x + 18y$ as $6(4x + 3y)$, or $y + y + y$ as $3y$)
- Understanding the process of solving simple equations
- Writing equations to solve word problems and describe relationships between quantities (e.g., the distance D traveled by a train in time T might be expressed by an equation $D = 85T$, where D is in miles and T is in hours)
- Reasoning about relationships between shapes to determine area, surface area, and volume

Keeping the conversation focused.

When you talk to the teacher, do not worry about covering everything. Instead, keep the conversation focused on the most important topics. In 6th grade, these include:

- Analyzing and solving problems using concepts of ratio and rate
- Working with variables and expressions
- Analyzing and solving word problems using equations

Ask to see a sample of your child’s work. Ask the teacher questions such as: Is this piece of work satisfactory? How could it be better? Is my child on track? How can I help my child improve or excel in this area? If my child needs extra support or wants to learn more about a subject, are there resources to help his or her learning outside the classroom?



Talking to
Your Child’s
Teacher

Help Your Child Learn at Home

Learning does not end in the classroom. Children need help and support at home to succeed in their studies. Try to create a quiet place for your child to study, and carve out time *every day* when your child can concentrate on reading, writing, and math uninterrupted by friends, brothers or sisters, or other distractions.

You should also try and sit down with your child at least once a week for 15 to 30 minutes while he or she works on homework. This will keep you informed about what your child is working on, and it will help you be the first to know if your child needs help with specific topics. By taking these small steps, you will be helping your child become successful both in and outside the classroom.

Additionally, here are some activities you can do with your child to support learning at home:

English Language Arts & Literacy

- Listen with your child to a television reporter, politician, or other speaker. Ask your child to tell you the speaker's main points. Was the speaker trying to convince the audience of something? How?
- Visit a library or book store together and ask the librarian or bookseller to recommend young adult books, such as *Roll of Thunder, Hear My Cry* by Mildred D. Taylor. To find more books for your child to read, visit www.corestandards.org/assets/Appendix_B.pdf.
- Invite your child to participate in an adult gathering, such as a meal with friends, to practice listening skills and making conversation.
- Encourage your child to learn at the library or on the Internet what life in your community was like 100 years ago. Have your child write a story, poem, or play about that time.

Mathematics

Look for "word problems" in real life. Some 6th grade examples might include:

- Determining the average speed of a family trip, based on the distance traveled and the time taken; or estimating the time that a trip will take, given the distance and an estimate of the average speed. (Examples can also come from the news — for example, a swimmer crossing the English Channel or a space probe traveling to another planet.)
- Finding the surface area of the walls and ceiling in a room to determine the cost of painting the room.

For more information, the full standards are available at www.corestandards.org.

**National
PTA**[®]
everychild.onevoice.[®]

National PTA
1250 N Pitt Street
Alexandria, VA 22314
Toll-Free: (800) 307-4PTA (4782)
PTA.org • info@pta.org

parent ROADMAP

SUPPORTING YOUR CHILD IN GRADE SIX
ENGLISH LANGUAGE ARTS





*America's schools
are working
to provide higher
quality instruction
than ever before.*

The way we taught students in the past simply does not prepare them for the higher demands of college and careers today and in the future. Your school and schools throughout the country are working to improve teaching and learning to ensure that all children will graduate high school with the skills they need to be successful.

In English language arts and literacy, this means three major changes. Students will continue reading and writing. But in addition to stories and literature, they will read more texts that provide facts and background knowledge in areas including science and social studies. They will read more challenging texts and be asked more questions that will require them to refer back to what they have read. There will also be an increased emphasis on building a strong vocabulary so that students can read and understand challenging material.

What your child will be learning in grade six English language arts and literacy



In grade six, students will read a range of challenging books, articles, and texts, and will be expected to demonstrate their understanding of the material by answering questions and contributing to class discussions. In writing, students will continue to work on their use of language, sentence structure, and organization of ideas. They will also be expected to integrate information from different sources and respond to challenging content through written interpretation and analysis. Activities in these areas will include:

- Providing detailed summaries of texts
- Determining the theme of a text and how it is conveyed
- Describing how a particular story or play unfolds and how characters respond to plot developments
- Using a range of reading strategies to determine the meaning of unknown words as they are used in a text
- Comparing and contrasting various texts, including poems, stories, and historical novels
- Understanding the figurative and connotative (implied) meaning of words and phrases
- Identifying and evaluating specific claims or arguments in a text
- Supporting written claims or arguments with clear reasons and relevant evidence
- Producing clear and coherent writing appropriate to the task, purpose, and audience
- Participating in class discussions about various texts and topics
- Conducting short research projects to answer a question, drawing on several sources



The figurative meaning of a word or phrase often goes beyond the literal definition, such as the phrase “raining cats and dogs.”

Partnering with your child's teacher

Don't be afraid to reach out to your child's teacher—you are an important part of your child's education. Ask to see a sample of your child's work or bring a sample with you. Ask the teacher questions like:

- Is my child reading on grade level? How is my child doing in writing?
- What are my child's strengths and weaknesses?
- What can I do at home to make sure that my child is successful?



In grade six, students will read a wide range of literature, including stories, plays, and poems. Additionally, they will read to learn information about history, the world, science, and other areas. Here are just a few examples of how your child will develop important reading skills across grade levels.

READING LITERATURE

Grade Five Reading

- Students determine the theme of a story, play, or poem from details in the text, including how characters respond to challenges or how the speaker in a poem reflects upon a topic, and summarize the text.
- Students describe how a narrator's or speaker's point of view influences how events are described.

Grade Six Reading

- Students determine the theme or central idea of a text and how it is conveyed through particular details. Students also provide an objective summary of the text.
- Students explain how an author develops the point of view of the narrator or speaker in a text.

Grade Seven Reading

- Students determine a theme or central idea of a text and analyze its development over the course of the text. Students also provide an objective summary of the text.
- Students analyze how an author develops and contrasts the points of view of different characters or narrators in a text.

READING FOR INFORMATION

Grade Five Reading

- Students quote accurately from a text when explaining what the text says explicitly and when drawing inferences from the text.
- Students draw on information from multiple print or digital sources, demonstrating the ability to locate an answer to a question quickly or to solve a problem efficiently.

Grade Six Reading


- Students cite evidence from the text to support analysis of what the text says explicitly as well as inferences drawn from the text.
- Students integrate information presented in different media or formats (such as visually or through numbers) as well as in words to develop a coherent understanding of a topic or issue.

Grade Seven Reading

- Students cite several pieces of evidence from the text to support analysis of what the text says explicitly as well as inferences drawn from the text.
- Students compare and contrast a text to an audio, video, or multimedia version of the text, analyzing each medium's portrayal of the subject (such as how the delivery of a speech affects the impact of the words).



As they progress through grade levels, students will be asked more questions that require them to cite details or information from increasingly challenging texts. This will encourage them to become observant and analytical readers.



Writing tasks in grade six may include stories, essays, reports, and persuasive papers. Here are just a few examples of how your child will develop important writing skills across grade levels.

Grade Five Writing

- Students introduce a topic clearly, providing a general observation and focus, and develop the topic with facts, definitions, concrete details, quotations, or other information.
- Students provide a concluding statement or section related to the information or explanation presented.
- Students group related information logically.
- Students link ideas within and across categories of information using words, phrases, and clauses such as *in contrast* or *especially*.
- Students use precise language and subject-specific vocabulary.

Grade Six Writing

- Students introduce a topic and develop the topic with relevant facts, definitions, concrete details, quotations, or other information.
- Students provide a concluding statement or section that follows from the information or explanation presented.
- Students organize ideas, concepts, and information using strategies such as definition, classification, comparison/contrast, and cause/effect.
- Students use appropriate transitions to clarify the relationships among ideas and concepts.
- Students use precise language and subject-specific vocabulary.

Grade Seven Writing

- Students introduce a topic clearly, previewing what is to follow, and develop the topic with relevant facts, definitions, concrete details, quotations, or other information.
- Students provide a concluding statement or section that follows from and supports the information or explanation presented.
- Students organize ideas, concepts, and information using strategies such as definition, classification, comparison/contrast, and cause/effect.
- Students use appropriate transitions to create cohesion and clarify the relationships among ideas and concepts.
- Students use precise language and subject-specific vocabulary to inform about or explain the topic.



Some writing guidelines may seem similar from year to year. However, with practice at each grade level, students continue to learn and apply the rules of standard written English and to strengthen and expand their vocabulary, use of language, and sophistication in the development and organization of ideas.

Helping your child learn outside of school



1. Provide time and space for your child to read independently. This time should be free from distractions such as television.
2. Ask your child what topics, events, or activities he or she likes. Then look for books, magazines, or other materials about those topics that would motivate your child to read.
3. It is also helpful when your child sees other people reading at home. You could share what you have read.
4. Make time for conversation at home. Discuss current events, shared interests, and future aspirations for education and career.
5. Visit museums, zoos, theaters, historical sites, aquariums, and other educational places to help increase your child's exposure to new knowledge and vocabulary.
6. Use technology to help build your child's interest in reading. There are several websites where students can read books or articles online. The computer will help with words the student cannot read independently. Libraries also have computers students can use to access those sites. Feel free to ask a librarian or teacher for suggestions.

Additional Resources



For more information on the Common Core State Standards for English Language Arts and Literacy, go to <http://www.corestandards.org/the-standards/english-language-arts-standards>.



parent ROADMAP

SUPPORTING YOUR CHILD IN GRADE SIX
MATHEMATICS





*America's schools
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The way we taught students in the past simply does not prepare them for the higher demands of college and careers today and in the future. Your school and schools throughout the country are working to improve teaching and learning to ensure that all children will graduate high school with the skills they need to be successful.

In mathematics, this means three major changes. Teachers will concentrate on teaching a more focused set of major math concepts and skills. This will allow students time to master important ideas and skills in a more organized way throughout the year and from one grade to the next. It will also call for teachers to use rich and challenging math content and to engage students in solving real-world problems in order to inspire greater interest in mathematics.

What your child will be learning in grade six mathematics



A **dependent variable** is a number whose value depends on other factors, while the value of an **independent variable** is set. For example, in a problem involving a constant speed (such as 60 mph), students may be asked how many miles will be travelled in 30 minutes. Since distance is determined by time, distance is the dependent variable, and time is the independent variable.

In grade six, your child will learn the concept of rates and ratios and use these tools to solve word problems. Students will work on quickly and accurately dividing multi-digit whole numbers and adding, subtracting, multiplying, and dividing multi-digit decimals. Students will extend their previous work with fractions and decimals to understand the concept of rational numbers—any number that can be made by dividing one integer by another, such as $\frac{1}{2}$, 0.75, or 2. Students will also learn how to write and solve equations—mathematical statements using symbols, such as $20+x = 35$ —and apply these skills in solving multi-step word problems. Activities in these areas will include:

- Understanding and applying the concepts of ratios and unit rates, and using the correct language to describe them (for example, the ratio of wings to beaks in a flock of birds is 2 to 1, because for every 2 wings there is 1 beak)
- Building on knowledge of multiplication and division to divide fractions by fractions
- Understanding that positive and negative numbers are located on opposite sides of 0 on a number line
- Using pairs of numbers, including negative numbers, as coordinates for locating or placing a point on a graph
- Writing and determining the value of expressions with whole-number exponents (such as $15+3^2$)
- Identifying and writing equivalent mathematical expressions by applying the properties of operations. For example, recognizing that $2(3+x)$ is the same as $6+2x$
- Understanding that solving an equation such as $2+x = 12$ means answering the question, “What number does x have to be to make this statement true?”
- Representing and analyzing the relationships between independent and dependent variables
- Solving problems involving area and volume

Partnering with your child’s teacher

Don’t be afraid to reach out to your child’s teacher—you are an important part of your child’s education. Ask to see a sample of your child’s work or bring a sample with you. Ask the teacher questions like:

- Where is my child excelling? How can I support this success?
- What do you think is giving my child the most trouble? How can I help my child improve in this area?
- What can I do to help my child with upcoming work?

Here are just a few examples of how students will learn about and work with fractions in grade six.

Grade Five Mathematics

- Add and subtract fractions with different denominators (bottom numbers)
- Multiply a fraction by a whole number or another fraction
- Divide fractions by whole numbers and whole numbers by fractions to solve word problems

Grade Six Mathematics

- Divide fractions by fractions using models and equations to represent the problem
- Solve word problems involving division of fractions by fractions

Grade Seven Mathematics

- Add, subtract, multiply, and divide rational numbers in any form, including whole numbers, fractions, and decimals)
- Solve multi-step problems involving positive and negative rational numbers



Real-world problems give students a context for dividing fractions by fractions.

Example of a problem involving the division of fractions.

Ann has $3\frac{1}{2}$ lbs of peanuts for the party. She wants to put them in small bags each containing $\frac{1}{2}$ lb. How many small bags of peanuts will she have?



Students use their knowledge of fractions to see that there are 7 halves in $3\frac{1}{2}$ lbs, so there will be 7 bags of peanuts.



Students can also find how many halves are in $3\frac{1}{2}$ by applying the traditional procedure of dividing $3\frac{1}{2}$ by $\frac{1}{2}$.

$$3\frac{1}{2} = \frac{7}{2}$$

$$\frac{7}{2} \div \frac{1}{2} = \frac{7}{2} \times \frac{2}{1} = \frac{14}{2} = 7$$

Here are just a few examples of how students will develop an understanding of ratios and proportions in grade six.

Grade Five Mathematics

- Explain why a fraction is equal to another fraction
- Interpret multiplication as scaling (resizing)

Grade Six Mathematics

- Understand the concept of a ratio and use the correct language to describe it
- Understand the concept of a unit rate (the rate per unit, or a ratio with a denominator of 1) and use the correct language to describe it
- Use ratio and rates to solve real-world problems

Grade Seven Mathematics

- Analyze proportional relationships and use them to solve real-world problems
- Calculate the unit rates associated with ratios of fractions, such as the ratio of $\frac{1}{2}$ a mile for every $\frac{1}{4}$ of an hour
- Recognize and represent proportional relationships in various ways, including using tables, graphs, and equations
- Identify the unit rate in tables, graphs, equations, and verbal descriptions of proportional relationships



Students use diagrams and tables to think through and solve real-world problems involving ratios.

Example of a problem involving ratios

A slime mixture is made by mixing glue and liquid laundry starch in a ratio of 3 to 2. How much glue and how much starch are needed to make 90 cups of slime?

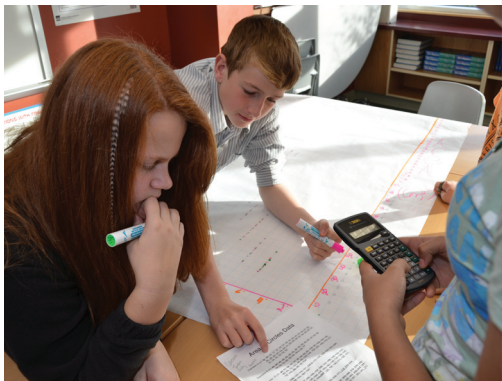


Parts	Quantities
5 parts	90 cups
1 part	$90/5 = 18$ cups
2 parts	$2 \times 18 = 36$ cups
3 parts	$3 \times 18 = 54$ cups



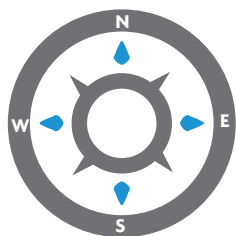
Using knowledge of ratios and proportions, students see that if each cup of slime is made up of 3 parts glue and 2 parts starch, there are 5 parts in each cup. They can then compute the quantity of one, two, and three parts of 90 cups to determine the exact amounts of glue and starch needed.

Helping your child learn outside of school



1. Ask your child to calculate the unit rates of items purchased from the grocery store. For example, if 2 pounds of flour cost \$3.00, how much does flour cost per pound?
2. Have your child determine the amount of ingredients needed when cooking. For example, if a recipe calls for 8 cups of rice to serve 4 people, how many cups of rice do you need to serve 6 people?
3. Encourage your child to stick with it whenever a problem seems difficult. This will help your child see that everyone can learn math.
4. Praise your child when he or she makes an effort, and share in the excitement when he or she solves a problem or understands something for the first time.

Additional Resources



For more information on the Common Core State Standards for mathematics, go to <http://www.corestandards.org/about-the-standards/key-points-in-mathematics> or <http://www.commoncoreworks.org>.

For more information on the standards in mathematics related to ratios/proportions or fractions, go to <http://commoncoretools.me/category/progressions/>.

For math games and challenges to do at home, go to <http://www.figurethis.org/download.htm> or www.24game.com.