

# Family Guides to Support Learning

## ABOUT THIS GUIDE

Parents and caregivers want their middle schoolers to succeed in school – to be engaged and excited about learning; to build strong relationships with their teachers and peers; and to learn each year the knowledge and skills they need to be successful academically.

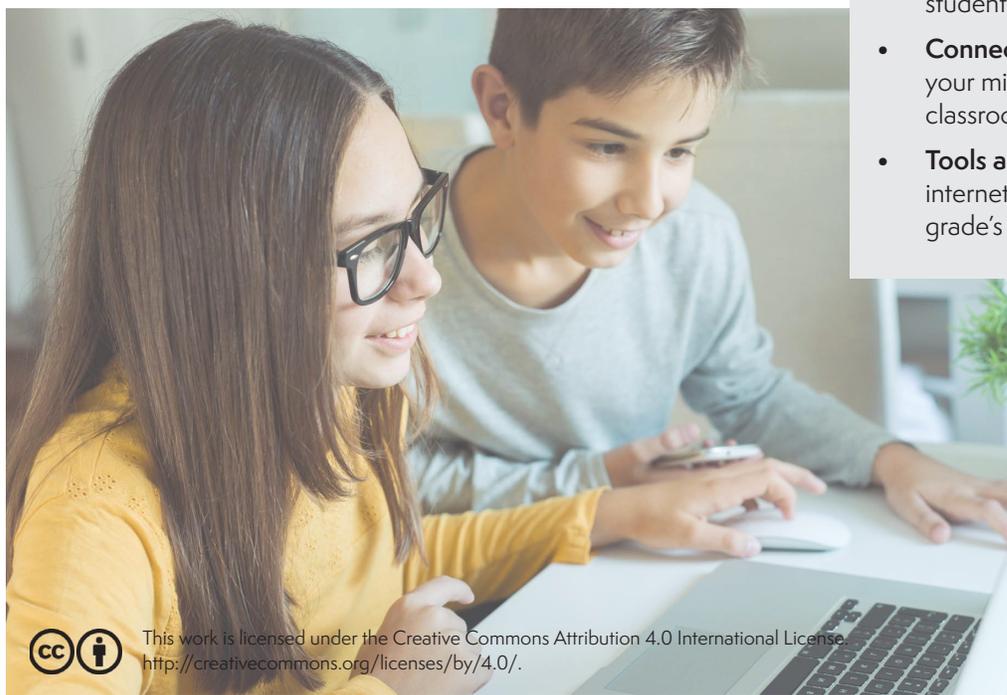
But it hasn't always been easy for parents and caregivers to figure out what children should know and be able to do by the end of each grade – and how to discuss these topics with their children and their teachers.

Moreover, while families are usually able to help if kids get stuck in the early grades, the content gets more challenging as students get older. Suddenly, parents and caregivers may feel like they don't have much help to offer. But that's not the case. Research confirms that families still have a big role to play in helping students learn. It's just a different role.

In addition to providing encouragement, a study of more than 50,000 students found that relating what middle and high school kids are learning in school to their future life goals is one of the most effective ways families can help. What doesn't work? Trying to be directly involved with schoolwork. It can feel to middle school students like you're interfering or even confusing them. And this IS the time to encourage students to take more responsibility and be more independent; helping them take charge of their learning is important.

These Family Guides provide parents and caregivers with the information and tools they need to support their children academically in literacy and math, which are the building-block subjects for everything else. With these Guides, families can engage more deeply in their middle schoolers' education, advocate for them, and build partnerships with their teachers – thus developing the strong bond between students, families, and teachers that ensures kids thrive.

<sup>4</sup>Harvard Graduate School of Education (2009). Hill: Parents need to link schoolwork to future goals. <http://www.gse.harvard.edu/news/09/05/hill-parents-need-link-schoolwork-future-goals>.



# GRADE 7

## THIS GUIDE INCLUDES

- **What 7th Graders Are Learning** – What experts say is the most important content (knowledge and skills) for students to learn in literacy and math by the end of seventh grade.
- **Talking About Literacy and Math with Your 7th Grader** – Ways families can talk with their 7th grader about what they are learning in school, find related resources, and connect learnings to the world around them.
- **Education Words** – Sometimes, you'll hear educators use a word that has a specific meaning in schools. Those words are bolded. Understanding those terms will help you speak the same language.
- **Tips for Talking with Teachers** – How you and your child's teachers can work together to help students grow.
- **Connecting Classrooms to Careers** – Helping your middle schooler see the connection between classroom learning and their future.
- **Tools and Resources to Help** – We've chosen a few internet resources that best match each grade's content.



STUDENT  
ACHIEVEMENT  
PARTNERS



This work is licensed under the Creative Commons Attribution 4.0 International License. <http://creativecommons.org/licenses/by/4.0/>.



## LITERACY

### WHAT 7TH GRADERS ARE LEARNING



Throughout the school year, 7th grade students will spend the most time working on the following topics. They should understand them well by the end of the year.

#### Reading, writing, speaking, and listening:

- Reading grade level texts smoothly and with expression, at a fluency rate of around 170 words per minute by the end of the year.
- Asking and answering questions about stories and texts read independently. Summarizing what happened in what was read, analyzing how events or ideas are related, and citing specific evidence to show how they know. Questioning the author's or speaker's assumptions. Determining the accuracy of statements they have heard or read.
- Citing several sources of specific evidence from the text when analyzing a book, essay, article, or play in discussion or in writing.
- Evaluating the key points in something they read or hear. Asking questions. Stating their own well-supported ideas in writing or speaking.
- Determining or clarifying the meaning of unknown words, **synonyms**, **antonyms**, and **figures of speech** (literary, biblical, mythological **allusions**). Determining or clarifying the meaning of words with similar, but not identical, meaning (for example, "refined," "respectful," "polite," "diplomatic," "condescending"). This can be done based on how they are used in context, through word relationships, or by using tools like dictionaries or glossaries.
- Making and justifying a claim or line of argument in writing or discussion. Supporting claims with precise and relevant evidence from credible sources.
- Showing something new they have learned from a text or about a topic. This can be in any form – speaking and conversation, letters, journals, stories, diagrams, reports, or essays – and should include sufficient additional detail that fits the form they have chosen.
- Writing in response to text, including an introduction and **thesis statement**; examples that are linked, logically ordered, and grouped; a conclusion; and mostly accurate spelling, capitalization, and punctuation.



### TALKING ABOUT LITERACY WITH YOUR 7TH GRADER

- If your 7th grader's reading is choppy, or they sound out every word, fluency might be an issue. Have them practice reading and re-reading a poem, short story, or passage to focus on expression and rate.
- Turn on closed captioning while watching TV or watching videos to allow your 7th grader to read along with the dialogue.
- Encourage your 7th grader to choose a book they want to read on their own each day. Reading lots of books over time is more important than the type of text. Let your 7th grader pick based on their interests and what makes them excited to read.
- Pick a topic to learn about together. Read books, look online, or do short research projects together. Ask what they learned in their reading. Have them present or share with you, with friends, or with other family members.
- Encourage regular writing: keeping a journal, writing letters or emails, and/or taking notes on what they are learning. Encourage your 7th grader to write to you, and then write back to them.
- Listen to podcasts together, or encourage your 7th grader to listen to podcasts of their choice and tell you about what they cover. There is a wide range of podcasts available. Consider the following sampling for a range of topics and types: "[But Why: A Podcast for Curious Kids](#);" "[Code Switch](#);" and "[The Unexplainable Disappearance of Mars Patel](#)."



# MATHEMATICS

## WHAT 7TH GRADERS ARE LEARNING



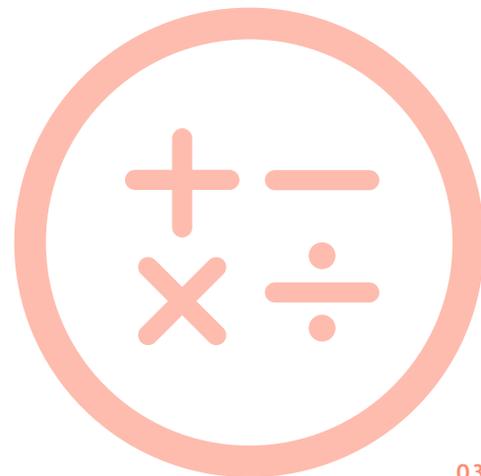
Throughout the school year, 7th grade students will spend the most time working on the following topics. They should understand them well by the end of the year.

- Analyzing **proportional relationships** (for example, by graphing in the **coordinate plane**), and distinguishing **proportional relationships** from other kinds of mathematical relationships (for example, buying 10 times as many items will cost you 10 times as much, but taking 10 times as many aspirin will not lower your fever 10 times as much).
- Solving percent problems including, but not limited to, tax, tips, and markups and markdowns.
- Adding, subtracting, multiplying, and dividing positive and negative numbers. Solving related word problems.
- Solving word problems that have a combination of whole numbers, fractions, and decimals. (For example, an employee making \$25 per hour receives a 10% raise. The employee will make an additional  $\frac{1}{10}$  of \$25 per hour, or \$2.50, for a new salary of \$27.50.)
- Solving **equations** (such as  $\frac{1}{2}(x - 3) = \frac{3}{4}$ ) quickly and accurately, and writing **equations** of this kind to solve word problems. (For example, “I knocked over a carton of milk, and 3 cups were spilled before I set the carton upright again. When I poured out the remaining milk equally into two measuring cups, there was  $\frac{3}{4}$  of a cup of milk in each one. How much milk was in the carton originally?”)



## TALKING ABOUT MATH WITH YOUR 7TH GRADER

- Encourage your 7th grader to talk to you about the math they feel they can successfully do. What new concepts are they learning? Where do they feel they need additional challenge and/or support?
- Help your 7th grader find resources that they feel are relevant and helpful. Ask them to talk to their teachers about the resources, extensions, and practice activities that they find.
- Have your child name topics of study that are directly relevant to their world. For example, from Grade 7 math, where do they see rates in the real world besides in their math materials (such as comparing costs between two internet plans offered in your neighborhood)?
- Encourage your 7th grader to think about questions and problems they would like to solve and how those connect to jobs they might like to have when they are an adult. Help them learn about how math is a part of these jobs.





## EDUCATION WORDS



Sometimes, you'll hear educators use a word that has a specific meaning in schools. Understanding those terms will help you speak the same language!

### Allusion

An allusion is a brief, indirect reference designed to call something to mind without stating it outright.

### Antonyms

Antonyms are words that mean the opposite. "Big" and "little" are antonyms.

### Coordinate plane

A coordinate plane (<https://www.splashlearn.com/math-vocabulary/geometry/coordinate-plane>) is a two-dimensional (<https://www.splashlearn.com/math-vocabulary/geometry/two-dimensional>) plane formed by the intersection of a vertical number line called y-axis and a horizontal number line called x-axis. These are perpendicular lines that intersect each other at zero, and this point is called the origin (<https://www.splashlearn.com/math-vocabulary/geometry/origin>).

### Equation

A statement that two expressions have the same value. Examples include:  $97 + 16 = 100 + 13$ ;  $4x - 7 = 5$ ;  $a + b = b + a$ .

### Figures of speech

A figure of speech is a word or phrase meant to create meaning that is separate from the literal definition. A figure of speech might be used to describe, compare, exaggerate, or emphasize something to convey meaning.

### Proportional relationships

A relationship between two varying quantities in which one quantity is a constant multiple of another quantity. For example, in an ant farm, the total number of legs is six times the total number of ants, so in an ant farm the number of legs is proportional to the number of ants.

### Reading level

Teachers often determine the grade level at which a student is reading. But sometimes, students are then limited to reading texts at that level (typically a letter or number). This practice is one to be wary of, particularly if students are limited to reading only texts that are below the grade level goals.

### Synonyms

Synonyms are words that mean the same thing. "Big" and "enormous" are synonyms.

### Thesis statement

A thesis statement is one or two sentences that summarize the paper's main point, main idea, or main message.



## TIPS FOR TALKING WITH TEACHERS

### Literacy

- What are my 7th grader's strengths, and how do you use them in instruction?
- How do you select texts? Will my 7th grader see characters and topics that represent them, their background, and their identity? Will they learn new perspectives and about new and diverse characters through the texts you use in the classroom?
- What topics are 7th graders learning about through reading? What should my 7th grader be able to understand, write, and talk about as a result of what they have read? Topics in history? Topics in science?
- What opportunities does my 7th grader have to choose books that interest them? Are they limited to a specific **reading level** or encouraged to select texts based on their interest, topics under study, or to build their knowledge of the world? Do they have any reading challenges, either with grade level text or with texts that they read on their own?
- Is my 7th grader able to write in ways that show you they understand what they are reading and learning? Are they able to use evidence from the text, present their responses in detail, and write with sufficient depth? Do they use conventions (spelling, punctuation, capitalization) and grammar rules appropriately? If not, what challenges are they facing? How can I help?
- Is my 7th grader able to speak and listen in class discussions and conversations in ways that show you they understand what they are reading and learning? Do they use evidence from the text, present their responses in detail, and speak with sufficient depth? If not, what challenges are they facing?
- How can I support and encourage my 7th grader to build a strong relationship with you and take age-appropriate responsibility for their own learning?

### Math

- What topics are 7th graders learning about in math?
- Ask for specific updates on how your 7th grader is progressing in their understanding of the key content of the grade.
- What should my 7th grader be able to understand and talk about as a result of what they have learned?
- Is my 7th grader able to demonstrate to you that they understand what they are learning? If not, what challenges are they facing?
- How can I support and encourage my 7th grader to build a strong relationship with you and take age-appropriate responsibility for their own learning?



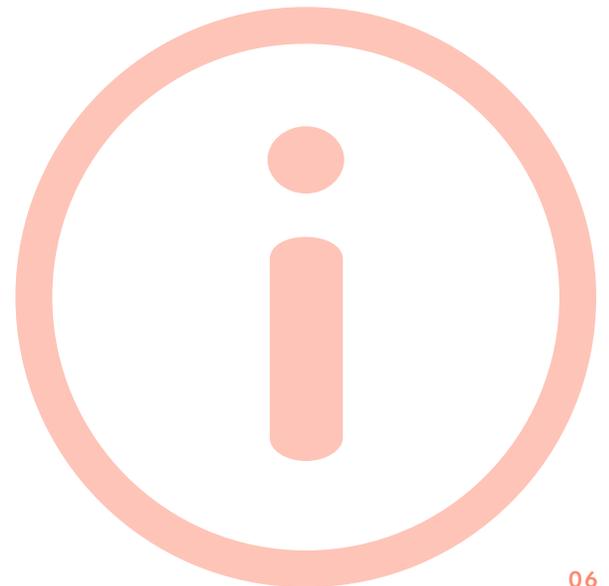


## CONNECTING CLASSROOMS TO CAREERS



Helping middle schoolers see how what they are learning in school connects to their future is one of the best ways that families can support their kids. In addition to seeking out resources at school and in your community (community colleges are a great place to look), here are a few more ways to get started:

- Help your middle schooler think about what jobs they might like to have, and then learn more about the education and training they need for a career in that field.  
<https://www.careerzone.ny.gov/views/careerzone/stem/index.jsf>
- Does your middle schooler like building and fixing things? Helping people? Learn more about how interests could lead to a career.  
<https://www.bls.gov/k12/students/careers/career-exploration.htm>
- Have your middle schooler visit/"shadow" someone who works in a career in which they are interested. Here are some virtual site visits to get started.  
<https://www.nebraskacareerclusters.com/>
- Has your middle schooler expressed interest in a career in the military? Explore military careers here.  
<https://www.asvabprogram.com/>  
<https://www.careersinthemilitary.com/home>
- Find a pathway to success: A guide to help students learn how to translate their interests into one of 16 career clusters.  
<https://ed.sc.gov/instruction/career-and-technical-education/career-guidance/career-cluster-guides/>
- Learn the importance of math for careers and jobs: What teens need to know and how parents can help.  
<https://www.niu.edu/mathmatters/careers-jobs/index.shtml>
- Are there colleges your middle schooler has expressed interest in attending? Together, check out their admissions requirements, including their course-taking requirements. Make sure your student is prepared for (mostly in middle school) and taking (mostly in high school) the classes they need not just to graduate from high school but to be eligible for college admission.





## TOOLS AND RESOURCES TO HELP



### Literacy

#### Sources of fiction text for reading and writing:

- Great Short Stories to Teach in Middle School  
<https://www.weareteachers.com/best-short-stories-for-middle-schoolers/>
- Must Share Poems for Middle and High School  
<https://www.weareteachers.com/24-must-share-poems-for-middle-school-and-high-school/>

#### Sources of non-fiction text for reading, writing, and research:

- *The New York Times* Learning Network  
<https://www.nytimes.com/section/learning>
- Dogo News  
<https://www.dogonews.com/grade/grades-6-8>
- *PBS NewsHour* Extra: Student Voices  
<https://www.pbs.org/newshour/extra/student-voices/>

#### More tools:

- Text sets to learn about any subject  
<https://achievethecore.org/content/upload/Text%20Set%20Guidance.pdf>
- Passages to help build fluency  
<https://achievethecore.org/page/887/fluency-packet-for-the-6-8-grade-band>



### Math

- Parent roadmap: What should children be learning in 7th Grade? How can families support their learning?  
<https://www.cgcs.org/Page/244>
- Videos and tutorials to help 7th graders understand and practice using rates and **proportional relationships**  
<https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion>
- Activities and games to help students practice variables, graphing, and other topics in Grade 7 math  
<https://teacher.desmos.com/collection/5e72d28669ff80f4025bcc1>
- Two activities to help students understand **proportional relationships** and decimal expansion of fractions  
<https://achievethecore.org/category/416/mathematics-tasks?&g%5B%5D=7&sort=name>
- A readiness check to find out how your 7th grader is doing  
<https://bealearninghero.org/readiness-check/>
- Tasks for ratios and **proportional relationships**, expressions and **equations**, and a variety of other math topics at the 7th grade level  
<http://tasks.illustrativemathematics.org/content-standards/7>