



cornerstone-prep.com

Welcome to Grade 7!

A Family's Guide to *CSPS Academic Standards*

This guide was made to help families understand the *CSPS Academic Standards* and to show what children will learn by the end of seventh grade. This tool provides information about the key ideas and skills teachers will introduce in mathematics, reading and writing, science and social studies. It includes possible examples of what students will be asked to do in class, how to help your child at home, questions you can ask your child and questions families can ask their child's teacher.



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This guide also was designed to help parents understand how they can work with teachers to support the learning of their child. When teachers and families work together to help students master *CornerStone Prep's Academic Standards*, students can succeed by developing the skills they will need for life after graduation.

If you have questions about this information or if your child needs extra help, please contact your child's teacher.



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Why are Academic Standards important?

CornerStone Prep's Academic Standards are important because they help make sure that all students have the skills they need to go after a successful future. Standards represent a goal or outcome of a subject area (such as mathematics, reading and writing, science and social studies). They help set clear and consistent expectations for what students should know and be able to do from kindergarten through high school. The standards are not a curriculum and do not determine the design of a lesson plan or how units should be organized. Decisions on how best to help students meet the goals in the standards, how learning experiences are designed, or what resources should be used are left to teachers.

How is faith integrated?

We offer a high-quality education through the lens of a Biblical worldview, which prepares our students for college, career, and life. Education of every kind is an endeavor shaped by worldviews and is more than just data and evidence; therefore, students must not only know facts, but also understand their worldview and how it colors and focuses their view of facts. As an inter-denominational school, the Biblical worldview that we teach students is best expressed in the biblical story of Creation, Fall, and Redemption. By taking these three events/themes as the lenses through which to look at the academics, we are able to show that faith and learning are bound together.



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Grade 7 Mathematics

Overview:

During 7th grade, students will develop the ability to fluently add, subtract, multiply and divide rational numbers. Your child will:

- Continue to use algebra to write and solve equations and inequalities using multiple steps;
- Learn to add, subtract, multiply and divide positive and negative numbers;
- Prepare for high school geometry by exploring angles and special angle relationships; and
- Be introduced to measuring circles using pi and continue using the statistical process to compare data sets.

Examples of Your Child's Work at School:

- Graphing proportional relationships, which will generate an informal understanding of unit rate (slope) as a measure of the steepness of the line;
- Distinguishing proportional relationships from other relationships;
- Writing and solving equations, inequalities and expressions that represent real-world problems;
- Solving problems involving the area and circumference of a circle and surface area of 3D objects;
- Exploring the relationships between angles formed by intersecting lines; and
- Addressing questions about differences between populations and discuss the importance of representative samples.

How to Help Your Child at Home:

- Let your child find the amount of tip you should leave at a restaurant.
- Let your child help balance a checkbook. Ask them, "If you have a balance of -\$50 and want a balance of \$50, how much would you need to deposit?"

Questions You Can Ask Your Child:

- If you are getting a 25% discount, what percent of the original price are you paying?
- How can you use 10% to estimate what 30% of a number is?

Questions You Can Ask Your Child's Teacher:

- What do you think is giving my child the most trouble? How can I help her or him improve in this area?
- How much time should my child spend on homework each night?
- Should my child use a calculator on homework?
- Are there any tools (resources, websites, videos, etc.) that we can use at home to help him or her in the classroom?
- How can we access Desmos? (Desmos is the online calculator students will have access to during upcoming assessments.) Are there any features that we should use at home to support classroom learning?
- What will my child be learning this year? How can I support her or his development in that area?

Grade 7 Reading and Writing

Overview:

During 7th grade, students will become critical consumers and communicators of information. Your child will:

- Read print and digital texts from many cultures and time periods on a variety of topics;
- Analyze how authors use words, structures and evidence for different purposes;
- Write pieces using text-based evidence to communicate with a variety of audiences for a variety of purposes; and
- Think critically and analytically to become independent and proficient lifelong learners.

Examples of Your Child's Work at School:

- Reading closely to analyze and comprehend difficult texts;
- Determining themes and central ideas of texts;
- Using grade-level vocabulary when reading, speaking and composing in all content areas;
- Writing a variety of argumentative, informational/explanatory, narrative and research products using evidence from print, non-print and digital resources; and
- Acknowledging opposing claims and countering/refuting them with logical evidence and reasons.

How to Help Your Child at Home:

- Look for ways to make books, magazines, newspapers and digital texts available at home.
- Visit the local library to see what resources and programs are available for your child.
- Make time to discuss family history, family events and current local/world issues.
- When reading/viewing text, commercials, news, movies, TV shows and websites, critically discuss the author's and others' differing perspectives.

Questions You Can Ask Your Child:

- What message does the text (book, movie, TV show, magazine article, news program, commercial) send to you? Do you believe the message? Why or why not?
- How did the writer choose certain words to impact how you think/feel about the topic?
- How would you challenge the information the writer presented? What evidence would you use to argue the point with him or her?
- How do writers deliver information in different formats? Movies vs. books? TV news vs. articles? Printed text vs. websites? Podcasts vs. editorials? How do different formats impact information?

Questions You Can Ask Your Child's Teacher:

- What topics are being explored through reading and writing at school?
- How can we use my student's interests to encourage reading and writing at home?
- How can we practice critical reading and viewing at home?
- How can we practice debating claims and counterclaims about a topic?

Grade 7 Science

Overview:

During 7th grade, your child will form deeper connections between concepts learned in grades K-6, such as collecting evidence and drawing conclusions, understanding relationships between objects and critical thinking that leads to designing effective solutions for problems. Your child will:

- Be engaged in experiences that demonstrate chemical reactions, energy transfer, forces, information processing and genetics;
- Use questions as tools to investigate the natural world and find solutions to problems; and
- Consider or apply engineering design principles throughout the course. This could include developing criteria to assess the effectiveness of different hybrid vehicles.

Examples of Your Child's Work at School:

- Analyzing data on the properties of substances to determine if a chemical reaction has occurred;
- Constructing scientific explanations based on evidence for how environmental and genetic factors influence the growth of organisms; and
- Using arguments supported by evidence for how the body is a system of interacting subsystems composed of groups of cells.

How to Help Your Child at Home:

- Ask your child what they are learning about in science class. Find current events and other texts to encourage discussions about their learning.
- Observe the way that plants and animals have adapted to interact with human communities.
- Practice making arguments using data and other information your child is learning about in science class.

Questions You Can Ask Your Child:

- What phenomenon are you exploring?
- What kinds of data are you gathering to help explain this phenomenon?
- What kinds of problems are you solving? How has research helped you develop a solution?

Questions You Can Ask Your Child's Teacher:

- What kind of phenomena are being explored?
- What are the big ideas my child will be learning about this year?
- What kinds of scientific research is my child experiencing?
- How is my child asked to include evidence into explanations and arguments?
- How are reading and writing and mathematics being included in science instruction?

Grade 7 Social Studies

Overview:

In 7th grade, students will study how movement and migration impacted the interactions between expanding civilizations in Afro-Eurasia (North Africa, Sub-Saharan Africa, Asia and Europe) and the Americas from 600 to 1600. Your child will:

- Compare how different economic systems divide the production, distribution and consumption of resources;
- Examine ways in which one culture can both positively and negatively influence another;
- Evaluate the political, geographic, economic and social impact of the expansion of empires during this period; and
- Examine how the accomplishments, developments, conflicts, migrations and interactions of the early modern world established the foundations of modern society.

Examples of Your Child's Work at School:

- Developing claims and arguments that are based on research and include many perspectives;
- Comparing the rights, roles, responsibilities and limitations of subjects in empires between 600 and 1600 with those of citizens in modern countries;
- Explaining how growing interdependence and advances in technology improve standards of living; and
- Evaluating the political, geographic, economic and social impact of the expansion of empires between 600 and 1600.

How to Help Your Child at Home:

- Encourage your child to ask questions. When your child asks questions, rather than give answers immediately, suggest thinking about where the answer might be found.
- Encourage your child to read nonfiction materials, such as articles and biographies.
- Encourage your child to compare news reports of the same event from multiple news outlets.
- Encourage your child to investigate countries across the world that allow their citizens varying degrees of political involvement and freedom of speech.
- Model civic engagement by researching candidates before voting, filling out census documents as a family and participating in local events, among others.

Questions You Can Ask Your Child:

- What opportunities are available to participate in local, state and national government and how does that look different today than it did in expanding empires?
- How do factors, such as political, geographic, economic and cultural situations, influence the movement of people and goods?
- What's the history behind current events in other countries?

Questions You Can Ask Your Child's Teacher:

- What online resources or books might support my child's learning?
- Are there places we can visit in our community to learn more about the early settlement of this area?
- What books would support what you are teaching in class?
- What resources are available to support learning about social studies skills?