

Grade Level Scope & Sequence

Fifth Grade

2014 - 2015



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Overview of Fifth Grade

Fifth graders at Liza Jackson Preparatory School build upon the concepts they have developed throughout their elementary years. More critical thinking and independent learning is expected and homework requirements increase. Important fifth grade accomplishments include:

- Organization of personal belongings (desk, planner, papers, assignments)
- Implementing long-range planning and time management strategies
- Learning HOW to learn on own
- Paraphrasing and summarizing
- Enhancement of thinking skills
- Skimming/scanning non-fiction sources for information (SQ3R method)
- Identification and cultivation of special interests
- Using discernment in research (choosing reliable sources, validating information, detecting bias, etc.)

Subject area content becomes more complex. Students re-visit fourth grade concepts, but only in order to expand on them and apply them, not re-learn what they already know.

Mathematics

Students continue to move from development and exploration of concepts into the application of concepts. Students begin to use formulas to solve problems. The “basic facts” (addition, subtraction, multiplication, and division) should already be mastered so that they can be used instantly when solving math problems. Real-world problem solving becomes more complex, and students need to develop effective strategies for finding solutions.

Language Arts (to include Reading, Spelling, and Handwriting)

At this level, students continue to “read to learn.” Students should select books that contain a rich vocabulary and challenge their reading abilities. Expository (non-fiction) text becomes an important part of the fifth grade year, as students perform independent research and develop note-taking and outlining strategies.

Writing becomes more elaborate with expansive vocabulary and varied sentence structure being employed. Compound sentences and complex punctuation are expected. All parts of speech are reviewed and/or reinforced: verbs, nouns, pronouns, adverbs, adjectives, prepositions, conjunctions, and interjections.

Good spelling is a requirement for full credit on assignments in any subject area. Students are expected to correctly spell words from previous years, as well as words they master throughout the fifth grade year.

All assignments are to be completed in cursive handwriting (Zaner-Bloser style).

Social Studies

Fifth grade social studies focus on United States history including ancient American civilizations, Native American tribes of North America, early European explorers, the colonization of North America, the American Revolution, the development and function of the United States government, and the growth and westward expansion. Students also study United States geography including the identification and location of major United States physical features, states, and capitals.

Science

The three areas of science are covered: Life science, earth science, and physical science. Emphasis is placed on performing experiments in order to discover scientific concepts. Fifth graders take the FCAT 2.0 science test.

Fifth Grade Curriculum Guide

Prerequisite skills for entering fifth grade:

Children should be competent at these skills before entering fifth grade:

Language Arts

- Read at or above the fifth grade level.
- Write legibly in cursive (capital and lower case letters).
- Construct a five-paragraph essay using organized paragraphs and complete sentences.
- Able to differentiate between narrative and expository formats.
- Use punctuation and capitalization correctly, including commas in a series, dates, and addresses, and beginning and ending quotation marks. Additional skills include using correct capitalization for proper nouns, titles, and the first word of a direct quotation.
- Give effective, organized oral presentations that include eye contact and use of appropriate speaking rate, tone, and volume of voice.
- Use correct grammar in speech and writing and be able to identify nouns, various verb tenses, adjectives, and prepositions.
- Correctly use and spell homophones such as *its* and *it's*; *they're*, *there*, and *their*; *your* and *you're*.

Mathematics

- Know all multiplication and division facts (0 – 12 fact families).
- Identify and be able to compare and order whole numbers through the one millions place.
- Identify and be able to compare and order decimal numbers through the hundredths place.
- Describe units of time such as seconds, minutes, hours, days, weeks, and decades. Know how they relate to each other.
- Interpret information from line, circle, bar, and double bar graphs.
- Describe the following concepts: mean, median, mode, range (of data), and probability of an outcome.
- Identify, describe, and extend patterns in numbers and geometry.

- Plot ordered pairs on a coordinate grid.
- Convert units of measure within the customary system using multiplication or division. Convert units of measure within the metric system using multiplication or division.
- Choose an effective strategy for solving real-world problems.
- Fractions: Read fractions with the denominators 2, 3, 4, 5, 6, 8, 10, 12, 20, 25, 100, and 1000. Add and subtract fractions with like or unlike denominators.
- Perform one-digit division, with and without remainders.

Science

- Plan experiments utilizing the scientific method. Report data in the form of graphs and charts.
- Measure and compare objects based on their physical properties.
- Understand what causes changes in state, or phase.
- Identify properties of minerals and recognize the role of minerals in the formation of rocks.
- Identify the three categories of rocks.
- Explain what forces change the surface of the earth, and steps of the Water Cycle.
- Know the characteristics of the Inner and Outer planets and the Sun.
- Understand the causes change in seasons, daylight hours, and lunar phases.
- Be familiar with life cycles of Florida plants and animals.
- Trace the flow of energy through a food chain.

Social Studies

- Locate and identify all fifty states and capitals and major geographic regions. SS.5.G.1.1, SS.5.G.1.2, SS.5.G.1.3, SS.5.G.1.4, SS.5.G.1.5, SS.5.G.1.6
- Identify major United States physical features using geographic skills. SS.5.G.1.3, SS.5.G.2.1, SS.5.G.3.1, SS.5.G.4.1, SS.5.G.4.2
- Compare ancient American civilizations and Native American tribes from different geographic regions of North America. SS.5.A.2.1, SS.5.A.2.2, SS.5.A.2.3
- Investigate early European exploration and interactions among many countries and Native Americans for control of North America. SS.5.A.3.1, SS.5.A.3.2, SS.5.A.3.3
- Describe motivation and characteristics for colonial settlement. SS.5.A.4.1, SS.5.A.4.2, SS.5.A.4.3, SS.5.A.4.4, SS.5.A.4.5, SS.5.A.4.6
- Identify and explain significant events leading up to the American Revolution. SS.5.A.4.4, SS.5.A.5.1, SS.5.A.5.2, SS.5.A.5.3
- Identify significant individuals and groups who played a role in the American Revolution. SS.5.A.5.2, SS.5.A.5.3, SS.5.A.5.4
- Examine major battles and campaigns of the American Revolution. SS.5.A.5.5, SS.5.A.5.6, SS.5.A.5.7, SS.5.A.5.8, SS.5.A.5.9, SS.5.A.5.10
- Discuss the significance of the Constitution and its role in American democracy. SS.5.A.1.1, SS.5.A.1.2

- Understand the functions of the three branches of the United States' government.
- Describe the period of westward expansion including important people. SS.5.A.6.1, SS.5.A.6.2, SS.5.A.6.3, SS.5.A.6.4, SS.5.A.6.5, SS.5.A.6.6, SS.5.A.6.7, SS.5.A.6.8, SS.5.A.6.9

Grade Level Skills Taught in Fifth Grade

Fifth Grade Skills: First Quarter

Language Arts

- Apply grade-level phonics and word analysis skills to spell words correctly. LAFS.5.RF.3.3, LAFS.5.L.1.2
- Read with accuracy and fluency to support comprehension. LAFS.5.RF.4.4
- Demonstrate legible cursive writing skills. LAFS.5.L.1.1
- Identify and use nouns, verbs, pronouns, and adjectives. LAFS.5.L.1.2
- Determine the meaning of unknown words and phrases. LAFS.5.L.3.4, LAFS.5.RL.2.4, LAFS.5.RI.2.4
- Engage in collaborative discussions and explore ideas. LAFS.5.SL.1.1
- Compare/Contrast and use formal and informal English when appropriate. LAFS.5.SL.2.6, LAFS.5.RL.2.3
- Quote accurately from a text when explaining what the text says. LAFS.5.RL.1.1, LAFS.5.RI.1.1
- Determine the theme of a text. LAFS.5.RL.1.2
- Identify and explain story structure and how point of view influences the events. LAFS.5.RL.2.5, LAFS.5.RL.2.6
- Analyze how visual elements create meaning in a text. LAFS.5.RL.1.3.7
- Determine two or more main ideas and supporting details. LAFS.5.RI.1.2
- Identify text structure (chronology, comparison, cause and effect, problem and solution). LAFS.5.RI.2.5
- Produce writing with attention to task, purpose, and audience. LAFS.5.W.2.4
- Write informative/explanatory texts with correct structure, transitional words, and specific vocabulary. LAFS.5.W.1.2
- Note: reading skills will be addressed within the reading classroom at a level appropriate for the skills and abilities of each individual child.

Mathematics

- Division and Multiplication of whole numbers. MAFS.NBT.2.5, MAFS.NBT.2.6
- Adding and subtracting fractions with different denominators. MAFS.NF.1.1, MAFS.NF.1.2
- Multiplying fractions by fractions. MAFS.NF.2.3, MAFS.NF.2.4
- Developing the concept of dividing with fractions. MAFS.NF.2.7.a, MAFS.NF.2.7.b

Science

- Employ the scientific method and other types of scientific investigation to perform experiments and draw conclusions. Display data in charts, graphs, and tables. SC.5.N.1.1, SC.5.N.1.2, SC.5.N.1.5
- Recognize and explain that science is grounded in empirical observations that are testable. Explain the need for repeated experimental trials. SC.5.N.1.3, SC.5.N.2.2
- Identify a control group and explain its importance. SC.5.N.1.4
- Link scientific explanations to evidence and data. SC.5.N.1.6, SC.5.N.2.1
- Investigate the properties of solids, liquids, and gases. SC.5.P.8.1
- Investigate physical and chemical changes, as affected by temperature and solubility. SC.5.P.8.2, SC.5.P.9.1
- Explain that mixtures can be separated based on their properties. SC.5.P.8.3
- Explore the scientific theory of atoms (also called atomic theory). SC.5.P.8.4

Social Studies

- The five themes of geography. SS.5.G.1.1, SS.5.G.1.2
- Demonstrate geography skills such as mapping and graphing physical features of the United States. SS.5.G.1.4
- The five regions of the United States. SS.5.G.1.6
- Early Americans: geographic, economic, political, and cultural that characterized early exploration of the Americas. SS.5.A.4.4
- Describe interactions among Native Americans, Africans, English, French, Dutch, and Spanish for control of North America. SS.5.A.4.5
- Timeline of American History (ongoing). SS.5.A.1.2

Fifth Grade Skills: Second Quarter

Language Arts

- Identify and use adjectives, adverbs, prepositions, interjections, and conjunctions. LA.5.L.1.1, LA.5.L.1.2
- Write more complex sentences. LA.5.L.1.2, LA.5.L.2.3
- Create and respond to specific questions. LAFS.5.SL.1.1, LAFS.5.RI.3.7, LAFS.5.RI.3.8
- Combine ideas to report on a topic using sequencing and supporting details. LAFS.5.SL.2.4, LAFS.5.SL.2.4
- Identify similarities and differences in point of view between multiple texts. LAFS.5.SL.RI.2.6
- Recognize and interpret figurative language. LAFS.5.L.3.5
- Use literary/informational text to support analysis, reflection, and research. LAFS.5.SL.2.4, LAFS.5.W.3.7, LAFS.5.W.3.8, LAFS.5.W.3.9
- Summarize a text or a speaker's points. LAFS.5.SL.1.2, LAFS.5.SL.1.3

Mathematics

- Solving problems with fractional quantities MAFS.NF.2.7, MAFS.MD.2.2
- Interpreting multiplying fractions by fractions. MAFS.NF.2.5, MAFS.NF.2.6
- Representing algebraic thinking MAFS.5.OA.1.1, MAFS.5.OA.1.2
- Exploring the coordinate plane. MAFS.5.OA.2.3, MAFS.5.G.1.1, MAFS.5.G.1.2

Science

- Recognize that a galaxy consists of gas, dust, and many stars, including any objects orbiting the stars. SC.5.E.5.1
- Recognize the major common characteristics of all planets and compare/contrast the properties of inner and outer planets. SC.5.E.5.2
- Distinguish among the following objects of the Solar System—Sun, planets, moons, asteroids, comets—and identify Earth's position in it. SC.5.E.5.3
- Investigate forces and changes in motion. SC.5.P.13.2
- Identify ways in which forces affect motion: friction, gravity, mass. SC.5.P.13.1, SC.5.P.13.3
- Distinguish between balanced and unbalanced forces. SC.5.P.13.4
- Investigate and describe some basic forms of energy, including light, heat, sound, electrical, chemical, and mechanical. SC.5.P.10.1

Social Studies

- Timeline of American History (ongoing). SS.5.A.1.2
- Selected European explorers and the territories they explored. SS.5.A.3.2
- The colonization of North America: politics, daily living. SS.5.S.4.3
- Birth of a new nation. SS.5.A.5.4

Fifth Grade Skills: Third Quarter

Language Arts

- Review and continue to use parts of speech. LA.5.L.1.1, LA.5.L.1.2
- Continue to increase complexity in sentence writing. LA.5.L.1.2, LA.5.L.2.3
- Consult reference material to verify meaning and important information.
- Compare/contrast elements in a story and stories in the same genre. LAFS.5.RL.1.3, LAFS.5.RL.3.9
- Recognize and explain idioms, adages, and proverbs. LAFS.5.L.3.5
- Conduct research projects that use several sources. LAFS.5.W.3.7, LAFS.5.W.3.8
- Develop and strengthen writing through the proficient use of technology. LAFS.5.W.2.5, LAFS.5.W.2.6
- Include graphics, sound, and visual displays in presentations to enhance main ideas or themes. LAFS.5.SL.2.5

Mathematics

- Classifying two-dimensional geometric shapes and analyze their properties, including volume, surface area, deriving and applying formulas for perimeter, and area. MAFS.5.G.2.3, MAFS.5.G.2.4
- Understanding and solving problems involving volume. MAFS.5.MD.3.3, MAFS.5.MD.3.4, MAFS.5.MD.3.5
- Performing operations with decimals. MAFS.5.NBT.2.7
- Understanding place value of decimals. MAFS.5.NBT.1.1, MAFS.5.NBT.1.2, MAFS.5.NBT.1.3

Science

- Explain that energy has the ability to cause motion and create change. SC.5.P.10.2
- Investigate static electricity between objects. SC.5.P.10.3
- Transform electrical energy into heat, light, and sound energy, as well as the energy of motion. SC.5.P.10.4
- Classify materials that conduct electricity and illustrate the flow of electricity in a closed circuit. SC.5.P.11.1, SC.5.P.11.2
- Identify relationships between Earth systems and patterns, such as the water cycle and weather and climate patterns. SC.5.E.7.1, SC.5.E.7.2, SC.5.E.7.3, SC.5.E.7.4, SC.5.E.7.5
- Describe characteristics of different climate zones. SC.5.E.7.6
- Design a family preparedness plan for natural disasters. SC.5.E.7.7

Social Studies

- Continue timeline of American History. SS.5.A.1.2
- The colonization of North America: politics, daily living. SS.5.S.4.3
- Causes, events, and effects of the Revolutionary War. SS.5.A.5.1, SS.5.A.5.5,

Fifth Grade Skills: Fourth Quarter

Language Arts

- Make predictions and draw conclusions from a text. LAFS.5.RL.1.1, LAFS.5.W.3.9
- Present Graduation by Demonstration project – speech and visual display. LAFS.5.SL.2.4, LAFS.5.SL.2.5, LAFS.5.SL.2.6,
- Increase the complexity of writing: longer sentences, more descriptive language, and varied vocabulary. LAFS.5.L.2.3,
- Writing genres: poetry, persuasive writing, speech writing. LAFS.5.RL.1.2, LAFS.5.RL.1.3, LAFS.5.L.2.3,
- Research process: select topic, create search plan, apply evaluative criteria, read and record information in text, and write an informational report. Publish using technology and include a bibliography. LAFS.5.W.1.2, LAFS.5.W.2.4, LAFS.5.W.2.5, LAFS.5.W.2.6, LAFS.5.W.3.7, LAFS.3.8, LAFS.5.W.4.10
- Grammar skills: review parts of speech, conventions, and analogies. LAFS.5.L.1.1, LAFS.5.L.1.2,

- Demonstrate the ability to read grade level text with accuracy, appropriate rate, and expression. LAFS.RF.4.4
- Use a variety of strategies to develop vocabulary and comprehend grade level text. LAFS.5.RF.3.3, LAFS.5.RF.4.4, LAFS.5.RL.1.4, LAFS.5.RL.4.10, LAFS.5.L.3.4, LAFS.5.L.3.5, LAFS.5.L.3.6
- Identifies, analyzes, and applies knowledge of the elements of a variety of fiction and literary texts to develop a thoughtful response to a literary selection. LAFS.5.RL.2.5, LAFS.5.RL.2.6, LAFS.5.RL.3.7, LAFS.5.RL.3.9,
- Identifies, analyzes, and applies knowledge of the elements of a variety of non-fiction, information, and expository texts to demonstrate an understanding of the information presented.

Mathematics

- Comparing and rounding decimals. MAFS.5.NBT.2.7
- Time is reserved during the fourth quarter to remediate and enrich standards. Opportunities will be provided for students to deepen their learning of 5th grade standards through real world projects.

Science

- Identify the organs in the human body and describe their functions. SC.5.L.14.1
- Compare and contrast the function of organs and other physical structures of plants and animals. SC.5.L.14.2
- Investigate interactions between living things and their environments. SC.5.L.15.1
- Describe adaptations that allow plants and animals to survive in an environment. SC.5.L.17.1

Social Studies

- United States government: The Declaration of Independence, the U.S. Constitution. SS.5.A.5.3, SS.5.A.5.10
- Roles and contributions of significant people during Westward expansion of the United States. SS.5.A.6.2
- Describe the causes and effects of the Louisiana Purchase. SS.5.A.6.1
- Explain the importance of explorations west of the Mississippi River, including the Lewis and Clark expedition. SS.5.A.6.4

Summary of Fifth Grade Skills

Mastery of these skills is what we generally expect our fifth grade students to attain by the end of the school year. They are considered the requisite skills for the sixth grade.

We encourage your family to practice and review these skills over the summer. By doing this, you are setting the stage for a successful sixth grade year!

Language Arts

- Read at or above the sixth grade level.
- Use a variety of print and electronic resources to perform independent research.
- Use outlining and note-taking skills to organize information.
- Use correct grammar in speech and writing and be able to identify pronouns, plural and possessive nouns, and various forms of adjectives, verbs, and adverbs.
- Use correct punctuation including capitalization for nationalities, races, languages, and religions.
- Compose letters in the correct format.
- Understand organizational patterns in non-fiction text.
- Compose narrative and expository essays.

Mathematics

- Read, write and understand common percents such as 10%, 20%, 25%, 50%, 75%, and 100%.
- Compare and order whole numbers and decimals from the thousandths place through the millions place.
- Identify and apply common rules of divisibility (2, 3, 4, 5, 6, 9, and 10).
- Multiply by two and three digit numbers.
- Divide by two-digit numbers, with and without remainders.
- Identify square numbers to 144.
- Recognize patterns in numbers.
- Calculate area and perimeter using the appropriate formulas.
- Understand geometry concepts such as obtuse, acute, and right angles and triangles.

Science

- Design and carry out experiments, correctly demonstrating use of the scientific method.
- Know characteristics of our solar system and galaxy.
- Understand forces that affect energy and motion.
- Understand what causes changes in state, or phase.
- Know the difference between physical and chemical changes.
- Understand the steps of the water cycle.
- Identify the organs of the body and describe their functions.
- Investigate interactions between living things and their environments.
- Describe adaptations that allow plants and animals to survive in an environment.

Social Studies

- Identify the three branches of the federal government, and their functions.
- Be able to recite the preamble to the United States Constitution.
- Describe the accomplishments of early European explorers.
- Know major characters, causes and events of the following eras in United States history: Colonial, Revolutionary War, Civil War, Westward Expansion, Civil War, Industrial Revolution, World War I, Great Depression, World War II, and the Cold War.

- Be able to use maps and globes to locate and describe given geographic regions in the United States.