

Social Studies

Social Studies is divided into four strands; civics and government, economics, geography, and history. In Seventh Grade these strands are studied through the study of Early Civilizations from BC to 1450.

Through the study of Early Civilizations students will gain content knowledge as well as an understanding of concepts, skills, and processes such as:

- Understand the purpose of government and how governments are established and organized.
- Understand the influences of early governments, especially in Greece and Rome, on the organization of the United States government.
- Understand how economic systems formed and changed in past civilizations based on the availability of resources, level of technology attained, transportation systems, and supply and demand.
- Understand the patterns and results of trade among civilizations in the past, which led to economic interdependence among cultures.
- Understand the historic relationships between people and their environments.
- Understand the chronology and significant developments of European and Middle Eastern history from ancient times through the mid-16th century.
- Develop an ability to analyze and interpret historical data to gain a more balanced understanding and appreciation of history and its uses in contemporary situations.

Science

Science is divided into three primary areas; life, earth & space, and physical. In Grade 7 the primary area of study is Life Science.

Through the study of Life Science students will gain content knowledge as well as an understanding of the following concepts, skills, and processes including:

- Develop models to describe cycling of materials and energy through populations beginning with photosynthesis
- Analyze the effect of changes in resources upon a population
- Describe the functions performed by organelles in a cell and how they work together to carry out the activities of life.
- Enhance understanding of cells by comparing bacterial, plant, and animal cells using microscopes.
- Understand the organization of the human body through the study cells, tissues, organs and of various systems and how they work together.
- Analyze evidence that shows Natural Selection and changes in organisms over time.
- Understand the principles of probability, variation in offspring and how Mendel applied them to genetics.
- Identify the characteristics of all living things and share how changes in the environment would affect species' ability to survive.

Our mission is to be a continuously improving, learning community, providing quality services to enable all children to master the knowledge and competencies necessary to function skillfully throughout life.

2023-2024



Curriculum Brochure

Seventh Grade

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English Language Arts

English Language Arts (ELA) comprises four areas; reading, writing, language, and speaking & listening. Within these four areas there are many categories, which when all brought together encompass student literacy.

In Seventh Grade, these are the skills and understandings we focus on in each area:

Reading:

- Read closely from complex literature and informational texts.
- Cite several pieces of textual evidence to support analysis of what the texts says explicitly as well as inferences that can be drawn from the text.
- Determine the themes or central ideas of a text and analyze their development over the course of a text; provide a summary of the text.
- Analyze text structure and the author's point of view.
- Determine the meaning of words and phrases in the text, including figurative language.

Writing:

- Write extended argumentative, informational, and narrative pieces with details and proper grammar, spelling and punctuation which are several pages in length.
- Complete research projects that include several sources and a focused question.
- Cite evidence and sources following a standard format.
- Use technology to produce writing pieces and presentations.

Language:

- Use context, background knowledge and strategies to determine the meaning of unknown words and multiple-meaning words.

Use academic and content-specific vocabulary.

Speaking and Listening:

- Analyze information and a speaker's argument and evidence presented in diverse media formats.
- Actively participate in collaborative discussions by being prepared and thoughtful about the topic being covered.
- Present claims and information through formal presentations, using multimedia to support the presentation.

Digital Literacy:

Offers students an introduction to foundational concepts by integrating basic digital literacy skills with ideas about computational thinking. Through the exploration of computing devices and digital tools, students begin to understand if, when, and how they should use technology.

Technology Education:

Offers students an introduction to engineering, elements of design, machines in action, transformation of energy, computing systems and computational thinking, 3D design, robotics, including technology career exploration.

Family Consumer Science:

Offers students an introduction to managing the challenges of living and working by focusing on foods and nutrition, child care and development, textiles and design, as well as consumerism.

Mathematics

Students in Seventh Grade are placed into one two math classes: Grade 7 Math or Grade Accelerated Math.

7th Grade Math

Students develop skills in problem solving using multiple strategies, the use of variables to represent unknown quantities, and recognizing the relationships between different sets of numbers. Students also practice the art of mathematical communication, both orally and in writing. Mastery topics in 7th Grade Math include order operations with rational numbers, percent problems, two-step equations, surface area and volume of right prisms, and data analysis from box plots.

7th Grade Accelerated Math

Students in this faster paced course learn the skills and concepts included in Grade 7 Math. In addition, students master the 8th Grade Geometry standards including the Pythagorean Theorem and Transformations as well as explore more advanced algebraic topics including solving multi-step equations and exponent rules.