

Social Studies Essential Concepts and Skills:

- Evaluate the changing nature of society
- Understand how humans develop, learn, adapt to the environment
- Understand how personality and culture impact the individual
- Compare/contrast how governments throughout the world influence the economy
- Apply the use of geographic tools to analyze information
- Evaluate how geography and humans create culture and define regions
- Understand how and why people create, maintain, or change government
- Analyze relationships between significant events
- Understand how laws are established at the local, state, and national levels
- Analyze and apply the rights and responsibilities of lifelong citizens in the United States
- Discuss the purpose and function of the three branches of government

Science Essential Concepts and Skills:

Sixth grade students use inquiry skills (questioning, investigating, gathering and analyzing data, developing and communicating explanations and outcomes) to learn science concepts. Specific units include levers and pulleys, models and designs, landforms, human growth and development, and environments.

By the end of sixth grade students will understand and apply knowledge of:

- the structure and processes of the earth system and the processes that change the earth and its surface
- earth history based on physical evidence
- motions and forces
- the basic components and functions of cells, tissues, organs, and organ systems
- interdependency of organisms, changes in environmental conditions, and survival of individuals and species
- the cycling of matter and energy in ecosystems
- the social and personal implications of environmental issues
- the functions of the reproductive system

6th Grade Skills and Concepts

This brochure is a guide to know what will be covered in the sixth grade curriculum.



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Math Essential Concepts and Skills:

- Can use all operations on multi-digit whole numbers and decimals
- Broaden knowledge of coordinate planes
- Find the greatest common factor/least common multiple
- Use ratio and rate concepts to solve problems
- Understand positive and negative numbers in real world situations
- Find area and volume for various shapes and figures
- Develop an understanding of absolute value, rational numbers and statistical variability
- Compare and order rational numbers
- Write, solve, and identify parts of expressions
- Use the distributive property and identify equivalent expressions
- Solve and write equations and inequalities
- Multiply/divide fractions by fractions
- Represent three-dimensional figures using nets
- Use exponents to denote powers of 10
- Display/summarize numerical data

Mathematical practices used by all students:

- *Explains thinking and understands the reasoning of others*
- *Makes sense of problems & perseveres in solving them*
- *Works accurately using appropriate tools*
- *Looks for and makes use of patterns*

Literacy and Language Arts Essential Concepts and Skills

Literature:

- Refer to reading to analyze and draw inferences
- Identify the theme or main idea of a literary work and summarize
- Compare and contrast reading to viewing audio, video, or live version, also different genre on similar themes
- Find out meaning of words and phrases (vocabulary, figurative and connotative meaning) within reading
- Describe how story's plot unfolds and how characters change or respond
- Analyze how section of passage fits into overall structure of passage
- Explain how author develops point of view or narrator or speaker

- Contribute in discussions individually or with peers
- Use factual information from several texts to aide in discussion focusing on a speaker's argument and if reason is true or false
- Use all information
- Use reasons and evidence from reading to support particular points within reading
- Use information from reading to support piece of writing of speaking about subject

Language Arts:

- Write opinion, informative, how-to, narrative, persuasive and a short research paper
- Spell grade-level words correctly within writing or speaking
- Do journal writing weekly for practice on different tasks and audiences
- Explain/demonstrate understanding of grammar and usage when writing, reading, listening or speaking
- Explain/demonstrate understanding of capitalization and punctuation when writing, reading listening or speaking
- Follow the writing process stages: prewriting, drafting, revising, editing, and publishing