ENGLISH LANGUAGE ARTS

Reading:

Key Ideas and Details:

- Cite strong and thorough textual evidence
- Provide a summary distinct from personal opinions or judgements
- Describe how a plot unfolds in a series of episodes

Craft and Structure:

- Determine the meaning of words
- Explain how an author develops the point of view

Integration:

- Compare and contrast one author's presentation of events with another (memoir and biography)
- Integrate information presented in different media or formats

Language:

- Demonstrate command of the conventions of standard English grammar and punctuation
- Use knowledge of language and its conventions when writing, speaking, reading, or listening
- Demonstrate understanding of figurative language, word relationships, and nuances in word meanings

Writing:

- Write arguments to support claims with clear reasons and relevant evidence
- Write informative texts to examine a topic and convey information
- Produce clear and coherent writing
- Develop and strengthen writing by planning, revising, editing, rewriting, or trying a new approach
- Conduct short research projects to answer a question drawing on several sources
- Gather relevant information from multiple sources

Speaking and Listening:

- Engage in a range of collaborative discussions
- Present claims and findings sequencing ideas logically and use pertinent descriptions

MATHEMATICS

- Understand ratio concepts and use ratio reasoning to solve problems
- Apply and extend previous understanding of multiplication and division to divide fractions by fractions
- Apply and extend previous understandings of numbers to the system of rational numbers
- Apply and extend previous understandings of arithmetic to algebra

Mathematical Practices:

- Make sense of problems and persevere in solving them
- Reason abstractly and quantitatively
- Construct viable arguments and critique the reasoning of others
- Model with mathematics
- Use appropriate tools strategically
- Attend to precision
- Look for and make use of structure
- Look for and express regularity in repeated Reasoning

SCIENCE AND TECHNOLOGY

Earth and Space:

- Develop and use a model of the Earth-Sun-Moon system to explain the causes of lunar phases, and eclipses of the sun and moon
- Analyze and interpret rock layers and index fossils to determine the relative ages of rock formations
- Graphically display that Earth and its solar system are part of the Milky Way
- Analyze and interpret maps showing the distribution of fossils and rocks, continental shapes and seafloor structures

Life Science:

- Provide evidence that organisms are made of cells
- Develop and use a model to describe the ways parts of cells contribute to essential cellular functions
- Construct an evidence-based argument that body systems interact to carry out essential functions of life
- Analyze and interpret evidence from the fossil record to describe organisms and their environment
- Argue using anatomical structures to support evolutionary relationships among/between fossils and modern organisms

Physical Science:

- Plan and conduct an experiment with exothermic and endothermic chemical reactions to measure and describe release or absorption of thermal energy
- Use a particulate model to show that density is the amount of matter in a given volume
- Conduct an experiment to show that many materials are mixtures of pure substances that can be separated physically into their component pure substances
- Use evidence to explain that gravitational forces between objects are attractive and noticeable only when one or both have a very large mass
- Model a simple wave to explain that it has a repeating pattern with a specific amplitude, frequency & wavelength; and the amplitude of a wave is related to the energy of the wave
- Use diagrams/models to explain how light rays/ mechanical waves are reflected, absorbed or transmitted through various materials
- Present qualitative data to support that digitized signals can be used to encode and transmit information

Technology and Engineering:

- Design criteria and constraints of a design problem to ensure a successful solution
- Create visual representations of solutions to a design problem using scale and proportion
- Communicate a design solution to an intended

user

- Analyze and compare properties of metals, plastics, wood and ceramics including flexibility, ductility, hardness, thermal conductivity and melting point
- Given a design task, select appropriate materials needed in the construction of a solution
- Choose and safely use appropriate tools to construct a prototype

SOCIAL STUDIES

Human Origins, Neolithic, Paleolithic Eras

- Describe the environmental changes that shaped Earth
- Identify sites where origins of first humans were found
- Explain Paleolithic and Neolithic
- Explain how agriculture differed between the complex societies
- Explain how complex societies spread
- Construct a timeline of the Paleolithic and Neolithic Era

Western Asia, the Middle East and North Africa

- Locate physical features of North Africa, Middle East, and western Asia
- Distinguish between countries and capitals
- Explain influences of settlement patterns
- Analyze and describe early Mesopotamia and Ancient Egypt
- Locate upper and lower Egypt and ancient Nubia and describe the significance of the Nile River
- Describe social classes, religion, and achievements of Ancient Egypt
- Locate Greece, Asia Minor, Crete, Phoenicia, the Aegean and Red Sea
- Explain Phoenician Significance
- Locate kingdoms of the Hittites and ancient Israel and Palestine and ancient Egypt
- Describe ancient Israel history and trace migrations of Israelite tribes
- Locate the Arabian Peninsula, identify the Red Sea and cities of Mecca and Medina
- Describe the life and teachings of Muhammad
- Explain Islam's relationship with Christianity and Judaism
- Research contributions of one the ancient societies to the modern world
- Describe impact through trade, cultural exchange, and conquest among the societies and empires in the region

Studying Complex Societies

- Explain how different fields in social studies focus on different means of studying society past and present
- Give ways a current historical interpretation could influence differences on past events
- Give example of how archaeologists, historians, etc. work as a team to analyze evidence

Sub-Saharan Africa

- Locate Africa, the Atlantic Ocean, Indian Ocean, and the Mediterranean Sea
- Locate countries, capitals, and cities and describe their absolute location
- Identify and explain significance of Kingdom of Axum
- Explain the role of the Swahili coastal societies
- Identify sources of wealth and importance of West African cities and empires
- Explain role of trans-Saharan trade

Central America, Caribbean Islands, and South America

- Locate Central America, Caribbean sea, and important physical features of the region
- Locate South America and its surrounding oceans
- Explain factors that influenced settlement patterns
- Describe the culture of the native peoples of the region
- Research and report one of the major ancient societies that existed in Central America

The purpose of this guide is to identify the major topics, concepts, and skills that are considered essential for this grade level as identified by the Massachusetts Curriculum Frameworks.

Gardner Public Schools

70 Waterford Street
Gardner, MA 01440
Phone: 978-632-1000
Fax: 978-632-1164

Gardner Public Schools

CURRICULUM GUIDE GRADE 6

Updated January, 2019