

- Distinguish between political and topographical maps

**Civics and Government:**

- Define and use correctly words related to government
- Study the responsibilities of the United States government
- Explain the structure of the local city or town government

**Economics:**

- Discuss the earliest explorations of the New World
- Learn about voyages and what they meant to the growth or decline of the country
- Describe the goals and extent of the new settlements
- Learn about major leaders
- Explain the reasons that the language, political institutions, and political principles were largely shaped by the English Colonies

**Political, Intellectual, and Economic Growth of the Colonies:**

- Describe the thirteen colonies, and how regional differences in climate, farming, populations and source of labor shaped their economics
- Explain the causes of the establishment of slavery in North America
- Identify the founders and the reasons for established educational institutions
- Explain the development of colonial government and how these developments contributed to the Revolution
- Describe the French and Indian War

**Revolution and the Formation of a Federal Government under the Constitution:**

- Describe the Declaration of Independence
- Describe the major battles of the revolution

- Identify the Constitution of the Commonwealth of MA
- Describe the life and achievements of important leaders
- Identify the Constitution of the Commonwealth of MA
- Describe the reasons for the adoption of the Articles of Confederation
- Identify various leaders

**Principles and Institutions of American Constitutional Government:**

- Describe responsibilities of government at the federal, state, and local levels
- Describe the basic political principles of American democracy
- Identify the three branches of the United States

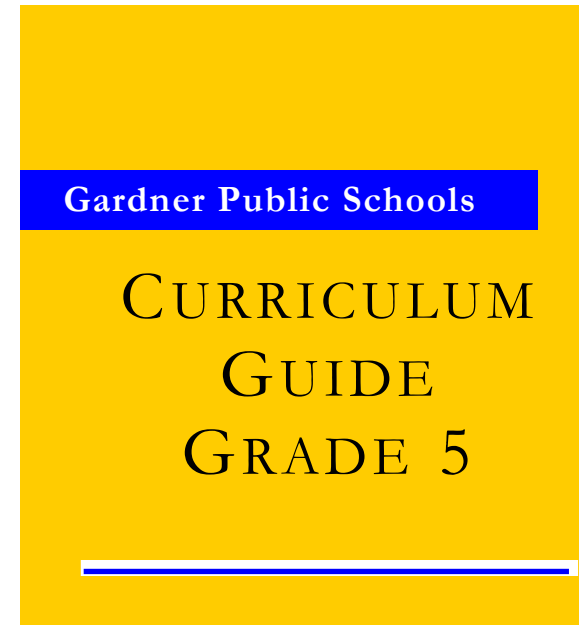
**Growth of the Republic:**

- Describe voting qualifications
- Explain the events leading up to the Louisiana Purchase and the significance
- Describe the expedition of Lewis and Clark
- Describe the significances and consequences of the abolition of slavery
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*The purpose of this guide is to identify the major topics, concepts, and skills that are considered essential for this grade level as defined by the Massachusetts Curriculum Frameworks*

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"Intelligence without ambition is a bird without wings." C. A. Danielson

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## ENGLISH LANGUAGE ARTS

### Reading :

Key Ideas and Details:

- Determine theme
- Compare and contrast 2 or more characters
- Draw inferences from text

Craft and Structure:

- Determine meaning from context clues
- Understand and use similes and metaphors
- Describe a narrators point of view

Integration:

- Integrate information from multiple sources on the same topic
- Compare and contrast stories from the same genre

Foundational skills:

- Use grade level phonics and word analyses to decode unfamiliar words
- Read grade level texts (fiction and nonfiction) with purpose and understanding

### Language:

- Demonstrate grade level command of the conventions of standard English grammar
- Demonstrate an understanding of figurative language (idioms, adages, and proverbs)

### Writing:

- Write opinion pieces on topics or texts
- Write informative/ explanatory texts to examine a topic or explain a point of view
- Produce clear and coherent writing
- Conduct short research projects

### Speaking and Listening:

- Engage in a range of collaborative discussions
- Report on a topic or text ( sequence ideas, use descriptive details, speak clearly)

## MATHEMATICS

### Number and Operations in Base Ten:

- Know the relative values of digits in a place value chart

- Round, compare, and compute with numbers including decimals to the thousandths
- Multiply by a three digit number
- Divide numbers by a two-digit divisor.

### Number and Operations – Fractions:

- Compare and find equivalent fractions
- Add and subtraction fractions and mixed numbers with unlike denominators
- Multiply and divide fractions and use in the solution of problems
- Write, model, and compare fractions as decimals in tenths and hundredths

### Operations and Algebraic Thinking:

- Write and evaluate numerical expressions with parenthesis using the order of operations
- Generate and identify the relationship between two numerical patterns

### Measurement and Data:

- Apply volume to the solution of problems with rectangular prisms
- Convert measurement units
- Construct a line plot with fractional units and solve problems

### Geometry:

- Graph points on the coordinate plane and use in the solution of problems
- Classify shapes based on their properties

## SCIENCE AND TECHNOLOGY

### Earth and Space Science:

- Observe and model Sun, Moon, Stars and the Earth
  - Day/Night Cycles
  - Patterns of shadow length
  - Changes in position of sun, moon and other stars at different times of day, month, year

### Life Science:

- Ask testable questions about plants use of air, water and energy from sunlight to produce sugars for growth and reproduction

- Develop models to show movement of matter among producers, consumers, decomposers and the air, water and soil
- Compare at least two designs for a composter to determine best decomposition of materials

### Physical Science:

- Use models of matter to explain phase changes between gas and liquid; and between liquid and solid
- Measure and graph weights of substances before and after a reaction or phase change to show that total weight (mass) is conserved
- Make observations to describe characteristic properties including color, hardness, reflectivity, electrical conductivity, thermal conductivity, response to magnetic forces and solubility
- Conduct an experiment to determine whether mixing two substances creates a chemical reaction or a mixture
- Use evidence to support an argument that gravitation is directed toward the Earth's center
- Use a model to show that the food animals digest:
  - Contains energy from the sun
  - Provides energy and nutrients for body repair, growth, motion, body warmth and reproduction

### Technology:

- Use informational text to provide examples of improvements to existing technologies and the development of new technologies; recognize that technology is the modification of the natural world to fulfill human wants or needs
- Use sketches or drawings to show how each part of a product or device relates to other parts of the product or device

## SOCIAL STUDIES

### History and Geography:

- Identify different ways of dating historical narratives
- Interpret timelines of events studied
- Use Maps And Globes
- Identify location of the hemispheres