Curriculum Team Vision

All teachers will plan for all instruction using the Massachusetts Curriculum Frameworks, aligned to the Common Core, and craft powerful learning experiences for students.

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Art
The fifth grade student will:
- Demonstrate an awareness of color scheme as it applies to color theory.
- Apply the elements of line, shape, color, value, texture, and form to various 2-D and 3-D processes.
- Further develop an understanding of design principles such as balance, rhythm, emphasis, unity, variety, and contrast.
- Express personal responses to subject matter, materials, techniques, and design elements in both 2-D and 3-D artworks.
- Understand important standards for a completed artwork and be able to use art vocabulary to express these criteria.
- Discuss the aspects of a particular work and period of art, identify the style and culture.

Music
The fifth grade student will:
- Apply musical concepts of melody, rhythm, harmony, dynamics, tempo, and style.
- Apply music theory through the use of musical instruments and reading the printed score.
- Respond to music through a wide variety of listening experiences that are integrated with other academic areas.

Health Dynamics
The fifth grade student will:
- Develop teamwork skills and the ability to work with others during a variety of activities.
- Develop a plan/strategy within a team environment to help complete a task.
- Improve cardiovascular and muscular endurance through fitness routines.
- Understand the dangers associated with bullying and practice methods to becoming an effective mediator within conflicts.
- Learning effective methods to cope with frustration and anger.
**The fifth grade student will:**

**Language**
- Use language to interpret text, including both literature and content areas.
- Use an extended vocabulary, identify meanings, use antonyms, synonyms, homographs, homophones, contractions, and compound words, and identify and use common prefixes, suffixes, and root words.
- Use a variety of reference sources to determine meaning, usage, and interpretation.
- Identify and refine use of eight parts of speech.
- Refine knowledge and use of Standard English conventions, including colons and changing word order to improve sentence meaning.

**Reading and Literature**
- Use a variety of comprehension strategies, including activating prior knowledge, making predictions, identifying main idea, supporting details and theme, comparing/contrasting, making inferences, identifying cause and effect, identifying and analyzing figurative language, and synthesizing what is read.
- Identify and analyze characteristics of various genres, including fiction, nonfiction, poetry, prose, and drama, and including works from different cultures.
- Demonstrate an understanding of characterization, setting, plot, and theme, providing evidence from the story to support conclusions.
- Understand various literary elements such as simile, metaphor, hyperbole, alliteration, and onomatopoeia.
- Apply reading strategies to non-fiction and content area material.

**Composition**
- Follow the writing process, using graphic organizers for prewriting and planning, and engaging in drafting, assessing, revising, editing, and publishing.
- Write a three to five paragraph composition, remaining on topic and using Standard English conventions.
- Use a variety of genres to write for different audiences and purposes, including informational, narrative, persuasive, literary and open-ended response writing.
- Locate information from a variety of sources for research/presentations.
- Use prescribed criteria in a scoring rubric to self-assess work.
- Identify and demonstrate informal and formal English language.
- Use the elements of setting, characterization, and plot in writing.

**Mathematics**

**The fifth grade student will:**

**Operations and Algebraic Thinking**
- Write and interpret numerical expressions.
- Analyze patterns and relationships.

**Number and Operations in Base Ten**
- Understand the place value system.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.

**Number and Operations—Fractions**
- Use equivalent fractions as a strategy to add and subtract fractions.
- Apply and extend previous understandings of multiplication and division to multiply and divide fractions.

**The Number System**
- Gain familiarity with concepts of positive and negative integers.

**Measurement and Data**
- Convert like measurement units within a given measurement system.
- Represent and interpret data.
- Geometric measurement: Understand concepts of volume and relate volume to multiplication and to addition.

**Geometry**
- Graph points on the coordinate plane to solve real-world and mathematical problems.
- Classify two-dimensional figures into categories based on their properties.

**Science and Technology**

**The fifth grade student will:**
- Design and carry out experiments.
- Reach conclusions using the Scientific Method.
- Revise prototypes using the Engineering Design Process.
- Unit Topics are:
  - Buoyancy
  - Rocks and Minerals
  - Water
  - Hurricanes
  - Growing Cells
  - Conservation
  - Evolution
  - Electrical Energy
  - Generating Power
  - Good Vibrations
  - Light Waves and Lenses
  - Complex Machines
  - Designing Roller Coasters

**Social Studies**

**The fifth grade student will:**
- Study the major pre-Columbian civilizations in the New World; the 15th and 16th century European explorations around the world, in the western hemisphere, and in North America in particular; the earliest settlements in North America; and the political, economic, and social development of the English colonies in the 17th and 18th centuries.
- Study the early development of democratic institutions and ideas, including the ideas and events that led to the independence of the original thirteen colonies and the formation of a national government under the U.S. Constitution.

**The purpose of the grade 5 curriculum is to give students their first concentrated study of the formative years of U.S. history.**