Science (Continued)

- Identify positive and negative effects of microorganisms
- Investigate the movement of heat by conduction, convection, and radiation
- Describe how light can be produced, reflected, refracted, and separated
- Describe the production of sound in terms of vibrations of objects that create vibrations in other materials

Social Studies

- Explain how ancient civilizations developed and how they contributed to the current state of the world
- Describe the impact of geography, religion, government, and technologies on ancient civilizations and how they affect us today
- Explain the transformation of cultures during the Middle Ages and the Renaissance and how they impacted modern times
- Explain the impact revolutions have had on the modern world
- Identify and describe major world events of the 20th century
- Explain and discuss current global issues and identify and suggest possible solutions
- Discuss and describe human rights and responsibilities in the 21st century

Fine Arts

- Analyze and reflect on significant works of art and explore a variety of art materials, techniques, and processes
- Identify, demonstrate, and create the movement elements in dance
- Examine, demonstrate, and create simple rhythmic and melodic patterns, tempos, dynamics, and pitches in music
- Develop and incorporate expressive use of the voice, emotional recall, body awareness, and spatial perception in performances

Library Media

- Understand the relationship between call numbers and shelf location
- · Locate shelved materials independently

- Understand advanced search strategies and features in Destiny and other online resources
- Understand how to critically evaluate information found in a variety of resources

Health Education

• Understand ways to have a healthy self through nutrition and fitness

Physical Education

• Demonstrate knowledge of skills needed to perform P.E. activities.

Technology

- Demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology
- Use appropriate digital tools and critical thinking to plan and conduct research, manage projects, solve problems, and make informed decisions
- Understand human, cultural, and societal issues related to technology
- Advocate and practice legal, ethical, and responsible use of technology
- Demonstrate understanding of technology concepts, systems, and operations

Utah Core Curriculum

Sixth Grade

A Parent's Guide to Student Learning



For more information about the Utah Core Standards, please visit: www.uen.org/core



Language Arts Speaking and Listening

- Be prepared, contribute, pose and respond to questions
- Interpret information from different formats, delineate speakers' arguments, claims, reasons, and evidence
- Probe and reflect on multiple perspectives and paraphrase
- Present claims and findings logically
- Use eye contact, adequate volume, clear pronunciation, and formal English
- Include multimedia components

Word Study – Vocabulary/Spelling

• Interpret figurative language, word relationships, multiple meaning words, base and root words, and Greek and Latin prefixes and suffixes to clarify meaning

Fluency with Expression

• Read accurately with purpose, at appropriate rate, using expression

Comprehension

- Cite textual evidence and draw inferences
- Explain central idea, how plots unfold, and how characters respond to change
- Analyze impact of figurative, connotative, and technical meanings of words/phrases on meaning and tone
- Compare/contrast stories, dramas, and poems and how sentences, paragraphs, chapters, scenes, and stanzas fit into ideas, themes, settings, and plots
- Determine an author's point of view/purpose and explain how the author develops the narrator's point of view
- Compare and contrast different authors' presentations of similar events
- Trace and evaluate arguments and claims with supporting reasons and evidence

Informative/Explanatory Writing

• Examine/develop topics using relevant facts, definitions, concrete details, and quotations, use text structures and features, transitions and domain-specific vocabulary, and provide a conclusion

Argument Writing

 State claim(s), provide clear reasons and relevant evidence from credible sources, use a formal style, include a simple bibliography, and provide a conclusion

Narrative Writing

 Develop real or imagined experiences using effective techniques, descriptions, sensory details, clear event sequences that unfold naturally, dialogue, pacing, descriptions, transition words/phrases/ clauses, introduce narrator and characters, and provide a conclusion

Handwriting

• Write all letters in cursive, holding pencil correctly, using correct strokes, with general neatness

Language Components

- Recognize vague or unclear pronouns, and use subjective, objective, possessive, and intensive pronouns correctly
- Use commas and parentheses to set off non-restrictive and parenthetical elements
- Maintain consistency in style/tone
- Use common Greek or Latin affixes and bases/roots
- Consult reference materials

Mathematics

Ratios and Proportional Relationships

• Understand ratio concepts and use ratio reasoning to solve problems

The Number System

- Apply and extend previous understandings of multiplication and division to divide fractions by fractions
- Compute fluently with multi-digit numbers and find common factors and multiples
- Apply and extend previous understandings of numbers to the system of rational numbers

Expressions and Equations

- Apply and extend previous understandings of arithmetic to algebraic expressions
- Reason about and solve one-variable equations and inequalities

 Represent and analyze quantitative relationships between dependent and independent variables

Geometry

• Solve real-world and mathematical problems involving area, surface area, and volume

Statistics and Probability

- Develop understanding of statistical variability
- Summarize and describe distributions

Standards for Mathematical Practice

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

Science

- Explain patterns of change in the appearance of the moon as it orbits Earth
- Demonstrate how the relative positions of Earth, the moon and the sun create the appearance of the moon's phases
- Describe the relationship between the tilt of Earth's axis and its yearly orbit around the sun and how that produces seasons
- Describe and compare the components of the solar system
- Describe the use of technology to observe objects in the night sky
- Describe forces that keep objects in orbit in the solar system
- Compare the size and distance of objects within systems in the universe
- Describe the appearance and apparent motion of groups of stars relative to Earth and how cultures have understood them
- Observe and summarize information about microorganisms
- Demonstrate how to plan and conduct an experiment to determine a microorganism's needs in a specific environment