

Eighth Grade Students will be able to ...

English Language Arts

- Combine multiple strategies to enhance comprehension and response to texts (visualize, predict, monitor, self-correct, etc.)
- Apply thinking skills to interpret ideas from informational texts (infer, define, classify, etc.)
- Recognize a variety of literary elements and techniques and explain how those techniques impact meaning
- Analyze, contrast, support, and critique points of view in a wide range of genres
- Identify elements/techniques of poetry and incorporate such techniques into original poetry
- Compare and contrast concepts, structures, and other aspects of various texts or media
- Identify how a speaker's word choice, characterization, and use of rhetorical techniques affect the listener's interpretation
- Listen, take notes, and prepare constructed responses on various topics
- Speak with expression, volume, pace, and gestures appropriate to the topic, audience, and purpose of communication
- Demonstrate comprehension through a wide range of activities, including writing, drama, oral presentations, and multi media performances
- Engage in cross-curricular reading and writing activities to increase understanding of social and historical eras and enhance understanding of period texts and the human experience
- Locate and use library media resources and synthesize information for various projects, including oral presentations, written projects, and multi media presentations
- Interpret a thematic statement and connect the ideas in that statement to two or more texts
- Adopt the appropriate format for sharing information with the intended audience and comply with the features of that format
- Maintain a writing portfolio that includes imaginative, interpretive, and responsive texts

Science

- Apply scientific inquiry skills to solve problems in experiments
- Describe how objects move due to forces and stop due to friction
- Demonstrate the need for machines in everyday life to make work easier
- Describe how energy can be changed into other forms of energy, and cannot be created or destroyed
- Recognize that heat is a form of energy and describe the

movement of heat from warmer to colder regions

- Accurately describe matter using chemical and physical properties
- Explain the Law of Conservation of Mass as matter cannot be destroyed or created, only changed
- Explain weather as an interaction between land, water, and air
- Demonstrate how atoms/elements can bond to create acids, bases, and salts

Mathematics

Number and Operations:

- Apply percents to solve problems
- Use calculation rules for exponents

Algebra

- Represent data relationships in multiple ways
- Solve multi-step linear equations and inequalities
- Solve systems of linear equations
- Use algebraic expressions and equations to solve problems
- Add, subtract, multiply and divide monomials and polynomials
- Factor simple trinomials
- Determine if a relation is a function
- Solve simple quadratic equations

Geometry

- Construct simple geometric figures
- Perform transformations on geometric figures
- Identify angle relationships and use them to find the measure of angles
- Graph lines from equations and tables, interpret slopes and y-intercepts in context

Social Studies

American History (Reconstruction to present)

- Investigate and explain the significance of key turning points in the Civil War in New York State and United States history
- Analyze how the Civil War influenced the development of postwar United States and other countries
- Explain how industrialization led to significant changes in the economic patterns for producing, distributing and consuming goods and services. Describe how societies and nations attempt to satisfy their basic needs and wants by using scarce capital, natural, and human resources
- Assess how industrialization altered the traditional social pattern of American society, created a need for reform, and led to a need for re-evaluating and changing the traditional role of government relative to the economy and social conditions
- Evaluate American territorial and economic growth and the impact on domestic and foreign economic, political and social structures
- Explain the economic, social, and political development of America in the period between World War I and World War II and how those developments led to the Great Depression

- Identify reasons for United States involvement in World War II and explain the role of the United States post-World War II
- Examine the historic, political, and social context in which United States foreign policy evolved during the post-Cold War era
- Identify and evaluate the economic, social, and political trends that shaped the end of the 20th century and point to the 21st century

Physical Education

- Demonstrate appropriate development in combining and integrating fundamental skills in modified game settings and competency in a variety of physical activities and games
- Understand the relationship between physical activity and the prevention of illness and disease, and the risks of injury that are related to physical activity
- Demonstrate fairness, sportsmanship, consideration and respect for others, as well as cooperation and collaboration skills, as group goals are accomplished
- Develop leadership, problem solving, cooperation skills and teamwork abilities by participating in group activities
- Demonstrate the ability to locate physical activity information and alternatives within the community and can
- Understand music and art as it relates to history and culture
- Apply concepts and skills found in art and music
- Make creative decisions and complete projects
- Apply music reading and performance skills as well as good musicianship through active participation in a performance ensemble

Languages Other Than English

- Acquire thematic vocabulary through reading, writing, listening, and speaking activities
- Appreciate and understand other cultures and the many ways in which people communicate