

8th Grade Curriculum

Math

- Addition, subtraction, multiplication and division of Algebraic equations
- Rates, ratios, probability, and relative frequency
- Slope of a line
- Slope intercept equations for line
- Exponential growth
- Linear versus exponential growth
- Laws of exponents
- Quadratic equations: graphing and solving
- Factoring quadratic equations
- Solving systems

Language Arts

Course Texts:

Wordly Wise Book 6
Grammar, Usage and Mechanics (GUM)
Novel Study: *Of Mice and Men* by John Steinbeck, *The Book Thief* by Markus Zusak, *To Kill a Mockingbird* by Harper Lee,
Selected Short Stories and Plays,
Informational Text/Resources

Course Objectives:

- Build a foundation of skills, processes, and strategies that support and guide the development of readers, writers and analytical thinkers
- Expand on each student's ability to read and respond to texts by annotating text effectively and participating in a variety of discussions
- Explore and understand literary elements and devices
- Scaffold the development of structured writing and free writing through guided practice and formative assessment
- Integrate writing throughout language arts via writing workshop, journal entries, on-demand writing, and novel study
- Review, extend and integrate grammar, usage, and vocabulary, thus providing a context for understanding and implementing effective writing practices

Areas of Study:

Analyzing literature and expository text, reading comprehension, the writing process, grammar, vocabulary, speaking and listening.

Science

Text: *Elevate Science*, Physical, Pearson

Course Description:

Focuses on Physical Science which includes an introduction to both chemistry, engineering and physics. Students are engaged in inquiry-based learning, through investigations that encourage innovation and collaboration that bridge disciplinary boundaries.

Course Objectives:

- To provide a foundation of facts, processes, basic concepts, principles and applications of science
- To develop skills of observation, descriptions, and critical thinking
- To develop skills in collecting, organizing, and communicating scientific data
- To promote the "doing" of science through inquiry and hands' on activities both in the laboratory and at home
- To foster a love of science by connecting the classroom science curriculum to the world we know today
- To help each student to develop solid organizational skills and study habits that support high school science curriculum
- To give students a strong analytical writing program explored through scientific inquiry

Social Studies

European and American History:

- European Feudalism
- Aztec, Incan & Mayan Empires
- Spanish Colonization of the Americas
- European Exploration of the Americas
- English Colonies
- American Revolution
- Early American Government

Religion

- The Bible
- Prayer
- The 5th through 7th and 9th and 10th Commandment
- Sacraments of Confirmation and Marriage
- Connecting Liturgy to culture
- Morals and Values
- High School Preparation