

REQUIRED COURSES

058435 **English Language Arts 8**

Grade(s): 08

Prerequisite: English Language Arts 7

Students learn to build habits and develop strategies that readers use on a daily basis to strengthen literal comprehension, interpretive, and analytical comprehension within the structure of a reading workshop.

Students experience reading units of study focused on the student's textual lineage, critical nonfiction reading across texts, fantasy and dystopian book clubs, and narrative nonfiction. In our reading units of study students are engaged in the work of approaching texts as readers, writers, and researchers.

Students learn to build habits and develop strategies that proficient writers use on a daily basis to strengthen thinking and organization, development, mechanics, and conventions within the structure of a writing workshop.

Students experience writing units of study focused on literary responses, position papers, literary essays, and investigative journalism. In our writing units of study, students are engaged in the work of approaching writing as writers, readers, and researchers as participants in a fluid and recursive writing process.

118043 **Math 8**

Infinite Campus Name: MATH 8

Grade(s): 07 - 08

Prerequisite: Mathematics 7

Math 8 is designed to provide a foundation for the development of skills necessary for Algebra I. Students will: study rigid transformations and congruence; learn about similarity and dilations; explore slope with linear relationships; solve linear equations and systems of linear equations; what makes a relationship a function; volumes of cylinders, cones, and spheres; properties of exponents and scientific notation. Math 8 ends with the Pythagorean theorem as students encounter square roots, cube roots, and irrational numbers for the first time.

118023 **Algebra 1**

Infinite Campus Name: ALGEBRA 1

Grade(s): 08

Prerequisite: Math 8 or Pre-Algebra

Algebra 1 is a critical turning point in the development of mathematical thinking. Everything that is quantifiable - whether through its measurable characteristics or changes over time - can be modeled and analyzed using algebraic and logical reasoning. Prior to this course, students have largely modeled and solved problems in real-world contexts with mathematical symbols. In Algebra 1, students move beyond working simply with concrete objects and begin analyzing the abstract world of mathematical objects. This analysis requires exploration and imagination as students create, discover, and uncover unifying patterns and structures in the realm of mathematics. An improved understanding of these structures will enhance all students' ability to apply algebra to real-world contexts for predictions and inferences, thus helping them better understand and respond to the challenges of our ever-changing world. This college preparatory course emphasizes real number operations, the manipulation of algebraic expressions, and the solution of algebraic sentences. At the conclusion of this course, students take the Algebra 1 End of Course Assessment required by the state of Missouri.

138033 Integrated Science Grade 8

Infinite Campus Name: INT SCIENCE8

Grade(s): 08

Prerequisite: None

Eighth grade science covers 6 units of study and continues to develop students' understanding of Life, Physical and Earth science. Students work to understand the connections between sciences. Learning revolves around figuring out an intriguing phenomenon that is guided by a driving question. Students then generate questions, explanations, and ideas for investigations that motivate learning. Students work together and learn from each other as they ask questions, design investigations, and find solutions

158033 Social Studies Grade 8 - U.S. History

Infinite Campus Name: US HISTORY 8

Grade(s): 08

Prerequisite: None

United States & World History 1: Global Interactions and American Identity - Students will trace the development of society, politics, interactions between people and environment, culture and economics from the 1400's to 1850. Students will explore the foundations of American history and its interactions with a global society in order to form a complete global perspective. Students will explore questions around morality, power, and perspective.

088433 Eighth Grade Physical Education and Health (8)

Grade(s): 08

Prerequisite: None

In eighth grade, students meet daily for Physical Education and Health. Eighth grade physical education begins to place more emphasis on personalized fitness and lifetime physical activity. While movement and sport skills continue to be developed, students are introduced to more complex movement patterns and deeper discussions regarding exercise principles (i.e. progression, overload, and specificity), movement principles, and personal fitness pursuits. Students regularly participate in cardiovascular fitness activities and utilize heart rate monitors to assess their participation level and collect personal fitness data. Students are also provided more opportunities to make personal choices and personalize their workout routines. Students have approximately 135-145 days of physical education throughout the year. Health education lessons comprise approximately 30-35 days of the eighth grade Physical Education Health course. Health education continues more in-depth study of legal and illegal drugs, nutrition, human sexuality, healthy relationships, and safety/first aid. Discussions include age-specific topics such as Cyber Safety, club drugs, STIs, weight management, and dating relationships. Discussions about character traits (i.e. trustworthiness, respect, responsibility, and fairness) and influences to character also will be discussed and infused within the curriculum. Through home assignments, students are encouraged to dialogue with their parents to help identify personal and family values which may influence their choices. Also, as part of the eighth grade health education experience, students will also participate in a special Safe and Drug-free program called Packin 4 Now n L8r, which focuses on the awareness of stress in their lives and the tools they need to balance the load they carry.