

General Course Information

Course Name: Math 8	
Department: Math	Grade Level(s): 8
Duration/Credits: 1 year	Prerequisites: None
BOE Approval Date: December 2022	Course Code:
Course Description:	
Math 8 shows students how algebraic concepts relate to other content areas as well as their everyday lives. In this course students will learn algebraic skills that will lead into solving equations, graphing, and problem solving/reasoning related to real-world scenarios.	
Course Rationale:	
In order to prepare middle school students for future endeavors, students will problem solve and understand mathematically through deep thinking with math tasks and meaningful discourse. Students will use hands-on learning and be able to see math as applicable and relevant to their lives.	
Course Objectives:	
<ul style="list-style-type: none">• The student will be able to use and apply the concepts of slope and linear relationships to represent real-world scenarios and present the ideas in different forms.• The student will be able to relate real-world situations to equations and use their knowledge to solve algebraic problems.• The student will be able to analyze and solve linear equations and inequalities and pairs of simultaneous linear equations.• The student will be able to understand the connections between proportional relationships, lines and linear equations.• The student will be able to use functions to model relationships between quantities.• The student will be able to understand and apply the Pythagorean Theorem.• The student will be able to work with radicals and integer exponents.	
Standards Alignment:	
Missouri Learning Standards, 2016	