



STAFFORD MUNICIPAL SCHOOL DISTRICT

Year at a Glance

SMSD 8th Grade Math

Course Description:

At-a-Glance

The primary focal areas in Grade 8 are proportionality; expressions, equations, relationships, and foundations of functions; and measurement and data. Students use concepts, algorithms, and properties of real numbers to explore mathematical relationships and to describe increasingly complex situations. Students use concepts of proportionality to explore, develop, and communicate mathematical relationships. Students use algebraic thinking to describe how a change in one quantity in a relationship results in a change in the other. Students connect verbal, numeric, graphic, and symbolic representations of relationships, including equations and inequalities. Students begin to develop an understanding of functional relationships. Students use geometric properties and relationships, as well as spatial reasoning, to model and analyze situations and solve problems. Students communicate information about geometric figures or situations by quantifying attributes, generalize procedures from measurement experiences, and use the procedures to solve problems. Students use appropriate statistics, representations of data, and reasoning to draw conclusions, evaluate arguments, and make recommendations. While the use of all types of technology is important, the emphasis on algebra readiness skills necessitates the implementation of graphing technology.

<i>Grading Periods</i>	<i>Unit Names</i>
Grading Period 1	<i>Value and magnitude of rational numbers Statistics with univariate data One variable equations, inequalities and their applications</i>
Grading Period 2	<i>Develop and understanding of slopes and y-intercept Proportional and non-proportional functions</i>
Grading Period 3	<i>Statistics with bivariate data Transformational geometry</i>
Grading Period 4	<i>Angle and triangle relationships involving real numbers Measurement of three-dimensional figures</i>



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Grading Period 5	<i>Making connections</i> <i>Financial Planning</i>
Grading Period 6	<i>Essential understanding of Algebra</i>

