

## 8th Grade EXCEED Goals and Measures

Area of Concern	Goal	GoalText	Progress Monitoring
Algebraic Thinking (RT7)	a. Understand the connections between Proportional Relationships, Lines, and Linear Equations (8th Grade)	Name  will graph proportional relationships, interpreting the unit rate as the slope of the graph with  %  percent accuracy.	Data Collection - Math
Algebraic Thinking (RT7)	b. Understand the Connections between Proportional Relationships, Lines, and Linear Equations (8th Grade)	Name  will compare two different proportional relationships represented in different ways with  %  percent accuracy.	Data Collection - Math
Algebraic Thinking (RT7)	c. Understand the Connections between Proportional Relationships, Lines, and Linear Equations (8th Grade)	Name  will use similar triangles to explain why the slope $m$ is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation $y = mx$ for a line through the origin and the equation $y = mx + b$ for a line intercepting the vertical axis at $b$ with  %  percent accuracy.	Data Collection - Math
Data and Statistics (RT9)	Investigate Patterns of Association in Bi-Variate Data (8th Grade)	Name  will construct models (scatter plots, linear models and frequency distributions), interpret and describe patterns in bi-variate data that may describe associations or relationships between the variables with  %  percent accuracy.	Data Collection - Math
Geometry (RT 6, RT8)	Solve Real-World and Mathematical Problems involving Volume of Cylinders, Cones, and Spheres (8th Grade)	Name  will know the formulas for the volumes of cones, cylinders, and spheres and use them to solve real-world and mathematical problems with  %  percent accuracy.	Data Collection - Math
Geometry (RT 6, RT8)	Understand and Apply the Pythagorean Theorem (8th Grade)	Name  will apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions and to find the distance between two points in a coordinate system with  %  percent accuracy.	Data Collection - Math

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Geometry (RT 6, RT8)	Understand Congruence and Similarity using physical Models, Transparencies, or Geometry Software (8th Grade)	Name  will understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of rotations, reflections, and translations; given two congruent figures, describe a sequence that exhibits the congruence between them. Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates. Use informal arguments to establish facts about the angle sum and exterior angle of triangles with  %  percent accuracy.	EasyCBM - 8th - Geometry and Measurement
Number Systems (RT1, RT2)	Know that there are numbers that are not rational and approximate them by rational numbers (8th Grade)	Name  will use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions (e.g., $\sqrt{2}$ ) with  %  percent accuracy.	Data Collection - Math
Operations (RT3, RT4)	Analyze Linear Equations (8th Grade)	Name  will graph and compare proportional relationships, interpreting the unit rate as the slope of the graph with  %  percent accuracy.	EasyCBM - 8th - Algebra
Operations (RT3, RT4)	Solve Linear Equations (8th Grade)	Name  will solve linear equations in one variable with  %  percent accuracy.	EasyCBM - 8th - Algebra
Operations (RT3, RT4)	Solve Pairs of simultaneous Linear Equations (8th Grade)	Name  will solve pairs of simultaneous linear equations with  %  percent accuracy.	Data Collection - Math
Operations (RT3, RT4)	Work with Integer Exponents (8th Grade)	Name  will use integer exponents to express very large and very small numbers and perform operations with scientific notation to include problems where both decimals and scientific notation are used with  %  percent accuracy.	Data Collection - Math
Operations (RT3, RT4)	Work with Radicals (8th Grade)	Name  will use square roots to evaluate small perfect squares and cube roots to evaluate small perfect cubes with  %  percent accuracy.	Data Collection - Math
Ratio & Proportional Relationships	Compare Functions (8th Grade)	Name  will compare the properties of two functions each represented in a different way with  %  percent accuracy.	Data Collection - Ratio & Proportional Relationships
Ratio & Proportional Relationships	Define Functions (8th Grade)	Name  will construct a function to model a linear relationships relationship between two quantities with  %  percent accuracy.	Data Collection - Ratio & Proportional Relationships

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Ratio & Proportional Relationships	Evaluate Functions (8th Grade)	Name  will describe qualitatively the functional relationship between two quantities by analyzing a graph of the functions with  %  percent accuracy.	Data Collection - Ratio & Proportional Relationships
Ratio & Proportional Relationships	a. Use Functions to model relationships between Quantities (8th Grade)	Name  will describe qualitatively the functional relationship between two quantities by analyzing a graph with  %  percent accuracy. (e.g., where the function is increasing or decreasing, linear or nonlinear).	Data Collection - Ratio & Proportional Relationships
Ratio & Proportional Relationships	b. Use Functions to model relationships between Quantities (8th Grade)	Name  will sketch a graph that exhibits the qualitative features of a function that has been described verbally with  %  percent accuracy.	Data Collection - Ratio & Proportional Relationships