I can recognize and use all 8 Mathematical Practices.

I can test and verify the appropriateness of my math model. (3-Act)

I can relate integers, their opposites, and their absolute values.

(1-1)

I can recognize rational numbers and write them in decimal form.

(1-2)

I can add integers. (1-3)

I can subtract integers. (1-4)

I can add and subtract rational numbers. (1-5)

I can multiply integers. (1-6)

I can multiply rational numbers. (1-7)

I can divide integers. (1-8)

I can divide rational numbers. (1-9)

I can solve problems with rational numbers. (1-10)

Topic Essential Question:

How can the properties of operations be used to solve problems integers and rational numbers?

(Topic 1 Review/Assessment)

I can use ratio concepts and reasoning to solve multi-step problems.

(2-1)

I can find unit rates with ratios of fractions and use them to solve problems. (2-2)

I can test for equivalent ratios to decide whether quantities are in a proportional relationship. (2-3)

I can use the constant of proportionality in an equation to represent a proportional relationship.

(2-4)

I can test and verify the appropriateness of my math model. (3-Act)

I can use a graph to determine whether two quantities are proportional. (2-5)

I can determine whether a relationship is proportional and us representation to solve problems. (2-6)

Topic Essential Question:

How can you recognize and represent proportional relationships and use them to solve problems?

(Topic 2 Review/Assessment)

I can understand, find, and analyze percents of numbers. (3-1)

I can use proportions to solve percent problems. (3-2)

I can represent and solve percent problems using equations. (3-3)

I can solve problems involving percent change and percent error. (3-4)

I can test and verify the appropriateness of my math model. (3-Act)

I can solve problems involving percent markup and markdown. (3-5)

I can apply percent reasoning to solve simple interest problems. (3-6)

Topic Essential Question:

How can you percents show proportional relationships between quantities and be used to solve problems?

(Topic 3 Review/Assessment)

I can write and evaluate algebraic expressions. (4-1)

I can write equivalent expressions for given expressions. (4-2)

I can use properties of operations to simplify expressions. (4-3)

I can expand expressions using the distributive property. (4-4)

I can use common factors and the distributive property to factor expressions. (4-5)

I can test and verify the appropriateness of my math model. (3-Act)

I can add expressions that represent real-world problems. (4-6)

I can subtract expressions using properties of operations. (4-7)

I can use an equivalent expression to find new information. (4-8)

Topic Essential Question:

How can properties of operations help to generate equivalent expressions that can be used in solving problems?

(Topic 4 Review/Assessment)

I can represent a problem with a two-step equation.

(5-1)

I can solve a problem with a two-step equation.

(5-2)

I can use the distributive Property to solve equations. (5-3)

I can solve inequalities using addition or subtraction. (5-4)

I can solve inequalities using multiplication and division. (5-5)

I can test and verify the appropriateness of my math model. (3-Act)

I can write and solve two-step inequalities.

(5-6)

I can solve inequalities that require multiple steps. (5-7)

Topic Essential Question:

How can you solve real-world and mathematical problems with numerical and algebraic expressions and inequalities?

(Topic 5 Review/Assessment)

I can determine if a sample is representative of a solution. (6-1)

I can make inferences about a population from a sample data set. (6-2)

I can draw comparative inferences about two populations using median and interquartile range (IQR). (6-3)

I can compare populations using the mean, median, mode, range, IQR, and mean absolute deviation. (6-4)

I can test and verify the appropriateness of my math model. (3-Act)

Topic Essential Question:

How can sampling be used to draw inferences about one or more populations?

(Topic 6 Review/Assessment)

I can describe the likelihood that an event will occur. (7-1)

I can determine the theoretical probability of an event. (7-2)

I can determine the experimental probability of an event. (7-3)

I can use probability to find probabilities of events. (7-4)

I can test and verify the appropriateness of my math model. (3-Act)

I can find all possible outcomes of a compound events. (7-5)

I can find the probability of a compound event. (7-6)

I can simulate a compound event to approximate its probability. (7-7)

Topic Essential Question:

How can you investigate chance processes and develop, use, and evaluate probability models?

(Topic 7 Review/Assessment)

I can use the key in a scale drawing to find missing measures. (8-1)

I can draw figures with given conditions. (8-2)

I can draw triangles when given information about their side lengths and angle measures. (8-3)

I can solve problems involving angle relationships. (8-4)

I can solve problems involving radius, diameter, and circumference of circles. (8-5)

I can solve problems involving the area of a circle. (8-6)

I can test and verify the appropriateness of my math model. (3-Act)

I can determine what the cross section looks like when a 3D figure is sliced. (8-7)

I can find the area and surface area of 2D composite shapes and 3D prisms. (8-8)

I can use the area of the base of a three-dimensional figure to find its volume. (8-9)

Topic Essential Question:

How can geometry be used to solve problems?

(Topic 8 Review/Assessment)

Accelerated Pathway 7th grade

Additional 8th grade I can statements attached from Topics 2, 7, 11, 12 in accelerated Pearson Text

I can write repeating decimals as fractions.

I can identify a number that is irrational.

I can compare and order rational and irrational numbers.

I can find square and cube roots of rational numbers.

I can solve equations involving squares or cubes.

I can use the properties of exponents to write equivalent expressions.

I can write a number with a negative or zero exponent a different way.

I can estimate large and small quantities using a power of 10.

I can use scientific notation to write very large or very small quantities.

I can perform operations with numbers in scientific notation.

I can solve equations that have like terms on one side.

I can solve equations with variables on both sides of the equal signs.

I can solve multistep equations and pairs of equations using more than one approach.

I can determine the number of solutions an equation has.

I can compare proportional relationships represented in different ways.

I can understand the slope of a line.

I can write equations to describe linear relationships.

I can find the y-intercept of a graph and explain what it means.

I can derive the equation of y=mx+b.

I can translate two-dimensional figures.

I can reflect two-dimensional figures.

I can rotate a two-dimensional figure.

I can describe and perform a sequence of transformation.

I can use a sequence of translations, reflections, and rotations, to show that figures are congruent.

I can dilate two-dimensional figures.

I can use a sequence of transformations, including dilations, to show that figures are similar.

I can identify and find the measure of angles formed by parallel lines and transversal.

I can find the interior and exterior angle measures of a triangle.

I can use angle measures to determine whether two triangles are similar.

I can find the surface area of cylinders, cones, and spheres.

I can use what I know about finding volumes of rectangular prisms to find the volume of a cylinder.

I can find the volume of cones.

I can find the volume of a sphere and use it to solve problems.