Grade 6 CCSS Skills

Ratios and Proportional Relationships

_____ Understand ratio concepts and use ratio reasoning to solve problems

_____ Understand unit rate

Number System

_____ Find a percent of a quantity

_____ Divide fractions by fractions

_____ Fluently compute with multi-digit numbers and multi-digit decimals

_____ Find common factors and multiples of numbers

_____ Find the greatest common factor and least common multiple of two whole numbers

_____ Use understanding of positive numbers to understand rational numbers

_____ Understand positive and negative integers and be able to locate
   on a four-quadrant coordinate plane

_____ Order rational numbers

_____ Understand absolute value

_____ Add and subtract integers

_____ Apply properties of operations to add and subtract rational numbers

Expressions and Equations

_____ Use understanding of arithmetic to solve one variable equations and inequalities

_____ Write expressions and equations to describe real world situations using variables

_____ Write and solve equations with whole number exponents

_____ Write an inequality to describe a real world or mathematical problem

_____ Represent and explain relationships between dependent and independent variables

Geometry

_____ Solve real world problems involving area, surface area, and volume

_____ Draw (freehand, with ruler and protractor and with technology) geometric shapes
   when given specific conditions

_____ Know the formulas for area and circumference of a circle

_____ Represent three-dimensional figures using nets made up of rectangles and triangles

_____ Find surface area using nets

Statistics and Probability

_____ Ask a statistical question (How old are the students in my school?)

_____ Describe and summarize data by noticing the center, spread, and overall shape

_____ Display numerical data on a number line including dot plots, histograms, and box plot

_____ Use measures of center to summarize numerical data