8th Grade:

**Expressions and Equations**

System of Equations

 Solving for x using distributive method with

fractions

 **Geometry**

 Transformations

 Angles

 Pythagorean Theorem

 Distance between two points

 **Functions and Number system**

 Slope/rate of change/constant of proportionality

 Linear? Not Linear?

 Square roots

 f(x)=2x+3 is the same as y=2x+3

 rational and irrational

 **Misc**

 Volume of cylinders, spheres, cones

 Positive and Negative exponents

 Dividing with pos./neg exponents

 Multiplying with exponents

 Multiplying with Scientific Notation

 Scatter Plots

 Relative Frequency Table

7th Grade:

 **Expressions and Equations**

Solving for x using distributive method with fractions

 Solving for x with inequalities

 **Geometry**

 Angles

 Complementary

 Vertical angles

 

 Perimeter

 Area of circles/Circumference of circles

 Area of rectangles/squares/triangles

 Surface Area

 Find the complement

 Volume of a cube

 Cutting a figure (playdough activity)

 Isosceles triangle

 **Functions and Number system**

 Adding/Sub/Multi/Div./rational numbers

(pos.neg/fractions)

 Absolute Value

 Ratios and proportions

 **Misc**

Probability

 Likely, most likely, unlikely

 Mean, median, mode

 Dot Plots

 Scale factor and proportions

 Rate problems