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

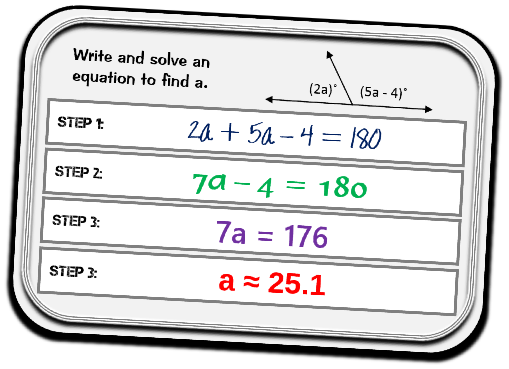
Solving for x with inequalities

**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