

Numbers and Operations

- Repeating decimals
- Square roots & cube roots
- Irrational numbers
- Approximating irrational numbers
- Exponents with negative bases
- Exponent properties intro
- Negative exponents
- Exponent properties (integer exponents)
- Working with powers of 10
- Scientific notation intro
- Arithmetic with numbers in scientific notation
- Scientific notation word problems

Solving Equations with one Unknown

- Equations with variables on both sides
- Equations with parentheses
- Number of solutions to equations
- Equations word problems

Linear Equations and Functions

- Graphing proportional relationships
- Solutions to linear equations
- Intercepts
- Slope
- Intro to slope-intercept form
- Graphing slope-intercept form
- Writing slope-intercept equations
- Functions
- Linear models
- Comparing linear functions
- Constructing linear models for real-world relationships
- Recognizing functions
- Linear and nonlinear functions

Systems of Equations

- Intro to systems of equations
- Systems of equations with graphing
- Solving systems with substitution
- Number of solutions to systems of equations
- Systems of equations word problems

Geometry

- Angles between intersecting lines
- Triangle angles
- Pythagorean theorem
- Pythagorean theorem application
- Pythagorean theorem and distance between points
- Pythagorean theorem proofs
- Volume

Geometric Transformations

- Transformations intro
- Translations
- Rotations
- Reflections
- Properties & definitions of transformations
- Dilations
- Congruence and similarity

Data and Modeling

- Introduction to scatter plots
- Interpreting scatter plots
- Estimating lines of best fit
- Two-way tables