

PATHWAYS LEARN MENU

Coming Soon 3rd 4th 5th Alg 1

6th Grade

1_Rational Number Operations

- Ordering and Converting
 - Classifying numbers
 - Mixed-improper
 - Convert fractions to decimals, PART 1
 - Convert fractions to decimals, PART 2
 - Percents to decimals, reverse
 - Ordering numbers
- Fractions and Decimals
 - Multiplying fractions
 - Dividing fractions
 - Adding/subtracting decimals
 - Multiplying decimals
 - Dividing decimals
- Integers
 - Absolute value
 - Adding and subtracting integers with manipulatives
 - Adding and subtracting integers with strategies
 - Multiply and divide integers

2_Equations and Inequalities

- Expressions
 - Exponents
 - Prime factorization
 - Order of operations
- Properties
 - Properties
 - Distributive property
 - Equivalent expressions using properties
- Equations
 - Solve addition/subtraction equations
 - Solve multiplication/division equations
 - Equation word problems

PATHWAYS LEARN MENU

- Inequalities
 - Inequality basics
 - Solve inequality models
 - Solve inequalities
 - Negative inequalities
 - Inequality word problems

3_Proportions and Percents

- Proportions
 - Ratios and rates
 - Creating proportions
 - Solve using unit rates
 - Solve using relationships
 - Solve using cross multiplication
- Measurement Conversions
 - Forming measurement proportions
 - Solving measurement conversions
- Percents
 - Solve for the percent using models
 - Solve for the percent in word problems
 - Solve for the part
 - Solve for the whole

4_Linear Relationships

- Graphing coordinate points
 - Components of a coordinate grid
 - Graphing coordinate points
- Linear Equations
 - Independent v.s dependent quantities (tables and graphs)
 - Additive relationships in tables part 1
 - Additive relationships in tables part 2
 - Additive relationships in graphs
 - Multiplicative relationships in tables part 1
 - Multiplicative relationships in tables part 2
 - Multiplicative relationships in graphs

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5_Geometry

- Triangles
 - Triangle properties
 - Solve for missing angles
- Area
 - Area of rectangles/parallelograms
 - Area of triangles/ decomposing a rectangle
 - Area of a trapezoid/ decompose triangles and rectangles
 - Area equations
- Volume
 - Volume basics
 - Solving for volume
 - Missing dimensions in volume

6_Data

- Numeric Data
 - Mean
 - Median
 - Range
 - Interquartile range
 - Data from a dot plot
 - Data from a stem and leaf plot
 - Data from a box plot
- Categorical Data
 - Mode in graphs (histograms)
 - Percents in bar graphs/frequency tables

7th Grade

1_Rational Number Operations

- Fractions
 - Mixed and improper
 - Addition/subtraction fractions
 - Multiplication/division fractions
- Decimals
 - Addition/subtraction decimals

PATHWAYS LEARN MENU

- Multiplication/division decimals
- Integers
 - Add/subtract integers
 - Multiply/divide integers
- Word Problems
 - Word problems

2_Equations & Inequalities:

- Equations
 - Models and solve 2 step equations
 - Solve 2 Step Equations
- Inequalities
 - Substitution with inequalities
 - Solve and graph
- Equation/Inequalities word problems
 - Create equations from word problems
 - Matching Equations from Word Problems
 - Create inequalities from word problems
 - Matching Inequalities from Word Problems

3_Proportions & Percents:

- Proportions
 - Creating a proportion
 - Solving proportions using relationships
 - Solving proportions using cross multiply
 - Measurement Conversions
 - Similar Shapes
- Percents
 - Solving percents
 - Tax, tip, discounts
 - Percents in Graphs
 - Percent of change

4_Linear Relationships

- Constant rate of change
 - Constant rate of change in tables and graphs

PATHWAYS LEARN MENU

- Linear equations
 - Slope and y-intercept
 - Linear equations from tables
 - Linear equations from graphs

5_Probability:

- Combinations
 - Combinations
- Probability
 - Simple probability
 - Compound probability
 - Predictions

6_Geometry:

- Angles
 - Angles
 - Triangles
- Area
 - Area of 2D Shapes
 - Area of circles
 - Area of semi and quarter circles
 - Composite figures
 - Circle circumference
- Surface Area
 - Total surface area
 - Lateral surface area
- Volume
 - Volume of prisms
 - Volume of pyramids

7_Data & Finance:

- Graphing
 - Mean, median, mode, range
 - Comparing box plots
 - Comparing dot plots
- Finances

PATHWAYS LEARN MENU

- Net worth
- Simple interest
- Compound interest

8th Grade

1_Real Number Operations

- Real number operations
 - Number conversions (fraction, decimal, percent)
 - Exponents, Square roots and exponents
 - Real number system
 - Scientific notation
- Ordering numbers
 - Order numbers

2_Equations

- Equations
 - Write an equation from a model
 - Combining like terms/preparing the equation
 - Solving equations
- Word problems
 - Write equations/inequalities from word problems

3_Linear Relationships

- Proportional relationships
 - Proportional v.s non proportional relationships in tables
 - Proportional v.s non proportional relationships in graphs
- Linear equations
 - Slope in tables
 - Slope in graphs
 - Y-intercept in graphs
 - Y-intercept in tables
 - $Y=mx+b$ in graphs
 - $y=mx+b$ in tables
 - Identifying functions

4_Pythagorean Theorem

PATHWAYS LEARN MENU

- Pythagorean theorem
 - Solve pythagorean theorem
- Pythagorean application
 - Pythagorean to solve for area/perimeter

5_Transformations

- Transformations
 - Translations
 - Reflections
 - Rotations
- Dilations/scale factor
 - Dilations

6_Geometry

- Volume
 - Volume of cylinders
 - Volume of cones
 - Volume of spheres
- Surface area
 - Total surface area of prisms
 - Lateral surface area of prisms
 - Total surface area of cylinders
 - Lateral surface area of cylinders

7_Data and Finance

- Data
 - Mean Absolute Deviation
 - Create a scatterplot
 - Use trend lines to predict
- Interest
 - Simple interest
 - Compound interest
 - Compare simple and compound interest