Grade 8 Math Units of Study 2025-26

August 2025 - June 2026

Unit 1 - Algebra Revisited: Finding the Balance

- Solving Multistep Equations with Variables on Both Sides
- Solving Equations with No Solution or Infinitely Many Solutions
- Rewriting Equations and Formulas
- Solving Word Problems using Equations

Unit 2 - Lines in Motion: Slope, Graphs, and Real-World Connections

- Investigating Slope
- Graphing Linear Equations
- Graphing Proportional Relations
- Graphing and Writing Equations in Slope-Intercept Form
- Graphing and Writing Equations in Standard Form
- Linear Functions and Interpreting Slope & Intercepts
- Application: Graphing Scenarios

Unit 3 - Data Representation: Predictive Pathways using Line of Best Fit

- Creating and interpreting scatter plots using bivariate data
- Line of Best Fit: Determining equation of the line and making predictions from the data
- Project-based Investigation

Unit 4 - Algebraic Alchemy: Systems of Equations

- Solving Systems of Equations by Graphing
- Solving Systems of Equations by Substitution
- Solving Systems of Equations by Elimination
- Special Cases: No Solutions or Infinitely Many Solutions
- Applying Systems of Equations to solve Real-World Scenarios

Unit 5 - Indices Laws and Scientific Notation: I've Got The Power

- Positive Integral Indices
- Zero and Negative Integral Indices
- Writing Numbers in Scientific Notation vs Standard Form
- Operations involving Scientific Notation

Unit 6 - Geometry in Motion: Angles, Pythagoras, and Transformations

- Evaluating Radicals
- The Pythagoras Theorem
- Angle Relationships found in Parallel Lines and Transversals
- Angles Relationships in Polygons
- Transformations on a Coordinate Plane

Order of units is subject to change.