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8th Grade Math Curriculum Map

Unit 1 – Real Numbers and Exponents (The Number System)

1-1 Rational Numbers

1-2 Operations with Rational Numbers

1-3 Converting Fractions and Decimals

1-4 Identifying Irrational Numbers

1-5 Properties of Irrational Numbers

1-6 Comparing and Ordering Irrational Numbers on a Number Line

1-7 Evaluation and Approximation of Square and Cube Roots

1-8 Negative Exponents

1-9 Negative Exponent Operations

1-10 Scientific Notation

1-11 Operations with Numbers in Scientific Notation

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Unit 2 – Expressions and Equations

2-1 Expressions with Radicals Exponents.

2-2 Expressions with Integer Exponents.

2-3 Creating Linear Equations

2-4 Solving Equations with Variables on Both Sides

2-5 Solving Equations with Distributive Property

2-6 Solving Equations by Combining Like Term

2-7 One/Infinite/No solutions of Equation

2-8 Solving Exponent Equations

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Unit 3 – Linear and Functional Relationships (Functions)

3-1	Intro to Functions/Graphing and Writing a Function Rule
3-2	Graphing Functions
3-3	Linear or Non Linear Functions
3-4	Exploring Linear Functions
3-5	Equations of Linear Functions
3-6	Graphs of Linear Functions
3-7	Tables of Linear Functions
3-8	Increasing, Decreasing, Max and Min
3-9	Interpret the Rate of Change
3-10	Contextualizing Function Qualities
3-11	Sketching a Piecewise Function

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Unit 4– Systems of Linear Equations

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Unit 5 – Patterns and Bivariate Data (Statistics)

5-1 Constructing Scatter Plots

5-2 Analyzing Scatter Plots

5-3 Linear or Nonlinear Correlation

5-4 The Line of Best Fit

5-5 Constructing a Two-Way Tables

5-6 Interpret a Two-Way Tables

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Unit 6 – Congruency and Similarity

6-1 Identifying Transformations

6-2 Constructing Rotations/Properties of Rotations

6-3 Constructing Reflections/Properties of Reflections

6-4 Constructing Translations/Properties of Translations

6-5 Constructing Dilatations/Properties of Dilatations

6-6 Identifying a Series and Determining Congruence or Similarity

6-7 The Sum of Angles in a Triangle

6-8 Similar Triangles

6-9 Parallel Lines Cut by a Transversal

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Unit 7 - Geometry