

PreAlgebra Curriculum Map

8th Grade

Unit 1 – Real Numbers and Exponents

1-1 Rational Numbers

CCSS.MATH.CONTENT.8.NS.A.1

1-2 Operations with Rational Numbers

CCSS.MATH.CONTENT.8.NS.A.1

1-3 Converting Fractions and Decimals

CCSS.MATH.CONTENT.8.NS.A.1

1-4 Identifying Irrational Numbers

CCSS.MATH.CONTENT.8.NS.A.2

CCSS.MATH.CONTENT.8.NS.A.1

1-5 Properties of Irrational Numbers

CCSS.MATH.CONTENT.8.NS.A.1

CCSS.MATH.CONTENT.8.NS.A.2

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

CCSS.MATH.CONTENT.8.NS.A.2

1-7 Evaluation and Approximation of Square and Cube Roots

CCSS.MATH.CONTENT.8.NS.A.2

CCSS.MATH.CONTENT.8.EE.A.2

1-8 Negative Exponents

CCSS.MATH.CONTENT.8.EE.A.1

1-9 Negative Exponent Operations

CCSS.MATH.CONTENT.8.EE.A.1

1-10 Scientific Notation

CCSS.MATH.CONTENT.8.EE.A.3

1-11 Operations with Numbers in Scientific Notation

CCSS.MATH.CONTENT.8.EE.A.4

Unit 2 – Equations and Expressions

2-1 Expressions with Radicals Exponents

CCSS.MATH.CONTENT.8.EE.A.2

2-2 Expressions with Integer Exponents

CCSS.MATH.CONTENT.8.EE.A.1

2-3 Creating Linear Equations

CCSS.MATH.CONTENT.8.EE.B.5

CCSS.MATH.CONTENT.8.EE.B.6

2-4 Solving Equations with Variables on Both Sides

CCSS.MATH.CONTENT.8.EE.C.7

CCSS.MATH.CONTENT.8.EE.C.7.B

2-5 Solving Equations with Distributive Property

CCSS.MATH.CONTENT.8.EE.C.7

CCSS.MATH.CONTENT.8.EE.C.7.B

2-6 Solving Equations by Combining Like Term

CCSS.MATH.CONTENT.8.EE.C.7

CCSS.MATH.CONTENT.8.EE.C.7.B

2-7 One/Infinite/No solutions of Equation

CCSS.MATH.CONTENT.8.EE.C.7.A

2-8 Solving Exponent Equations

CCSS.MATH.CONTENT.8.EE.C.7

CCSS.MATH.CONTENT.8.EE.C.7.B

Unit 3 – Linear and Functional Relationships

3-1 Intro to Functions/Graphing and Writing a Function Rule

CCSS.MATH.CONTENT.8.F.A.1

CCSS.MATH.CONTENT.8.F.B.4

CCSS.MATH.CONTENT.8.F.B.5

3-2 Graphing Functions

CCSS.MATH.CONTENT.8.F.A.1

CCSS.MATH.CONTENT.8.F.A.2

CCSS.MATH.CONTENT.8.F.B.5

3-3 Linear or Non Linear Functions

CCSS.MATH.CONTENT.8.F.A.3

CCSS.MATH.CONTENT.8.F.B.5

3-4 Exploring Linear Functions

CCSS.MATH.CONTENT.8.F.A.2

CCSS.MATH.CONTENT.8.F.B.4

CCSS.MATH.CONTENT.8.F.B.5

3-5 Equations of Linear Functions

CCSS.MATH.CONTENT.8.F.A.3

CCSS.MATH.CONTENT.8.F.B.4

3-6 Graphs of Linear Functions

CCSS.MATH.CONTENT.8.F.A.1

CCSS.MATH.CONTENT.8.F.A.2

CCSS.MATH.CONTENT.8.F.A.3

CCSS.MATH.CONTENT.8.F.B.4

CCSS.MATH.CONTENT.8.F.B.5

3-7 Tables of Linear Functions

CCSS.MATH.CONTENT.8.F.B.4

CCSS.MATH.CONTENT.8.F.B.5

3-8 Increasing, Decreasing, Max and Min

CCSS.MATH.CONTENT.8.F.B.4

CCSS.MATH.CONTENT.8.F.B.5

3-9 Interpret the Rate of Change

CCSS.MATH.CONTENT.8.F.A.2

CCSS.MATH.CONTENT.8.F.B.4

CCSS.MATH.CONTENT.8.F.B.5

3-10 Contextualizing Function Qualities

CCSS.MATH.CONTENT.8.F.A.1

CCSS.MATH.CONTENT.8.F.A.2

CCSS.MATH.CONTENT.8.F.B.5

3-11 Sketching a Piecewise Function

CCSS.MATH.CONTENT.8.F.A.2

CCSS.MATH.CONTENT.8.F.B.4

CCSS.MATH.CONTENT.8.F.B.5

Unit 4– Systems of Linear Equations

4-1 Graphing with Slope – Intercept Form

CCSS.MATH.CONTENT.8.F.A.3

CCSS.MATH.CONTENT.8.EE.C.8.A

CCSS.MATH.CONTENT.8.EE.C.8.C

4-2 Solving Systems by Graphing

CCSS.MATH.CONTENT.8.EE.C.8.A

CCSS.MATH.CONTENT.8.EE.C.8.C

4-3 Solving Systems Using Substitution

CCSS.MATH.CONTENT.8.EE.C.8

CCSS.MATH.CONTENT.8.EE.C.8.B

CCSS.MATH.CONTENT.8.EE.C.8.C

4-4 Solving Systems Using Elimination

CCSS.MATH.CONTENT.8.EE.C.8

CCSS.MATH.CONTENT.8.EE.C.8.B

CCSS.MATH.CONTENT.8.EE.C.8.C

4-5 Solving Systems via Inspection

CCSS.MATH.CONTENT.8.EE.C.8.A

CCSS.MATH.CONTENT.8.EE.C.8.B

CCSS.MATH.CONTENT.8.EE.C.8.C

4-6 Applications of Systems of Linear Equations

CCSS.MATH.CONTENT.8.EE.C.8

CCSS.MATH.CONTENT.8.EE.C.8.C

Unit 5 – Patterns and Bivariate Data

5-1 Constructing Scatter Plots

CCSS.MATH.CONTENT.8.SP.A.1

CCSS.MATH.CONTENT.8.SP.A.2

CCSS.MATH.CONTENT.8.SP.A.3

5-2 Analyzing Scatter Plots

CCSS.MATH.CONTENT.8.SP.A.1

CCSS.MATH.CONTENT.8.SP.A.2

CCSS.MATH.CONTENT.8.SP.A.3

5-3 Linear or Nonlinear Correlation

CCSS.MATH.CONTENT.8.SP.A.1

CCSS.MATH.CONTENT.8.SP.A.2

CCSS.MATH.CONTENT.8.SP.A.3

5-4 The Line of Best Fit

CCSS.MATH.CONTENT.8.SP.A.1

CCSS.MATH.CONTENT.8.SP.A.2

CCSS.MATH.CONTENT.8.SP.A.3

5-5 Constructing a Two-Way Tables

CCSS.MATH.CONTENT.8.SP.A.4

5-6 Interpret a Two-Way Tables

CCSS.MATH.CONTENT.8.SP.A.4

Unit 6 – Congruency and Similarity

6-1 Identifying Transformations

CCSS.MATH.CONTENT.8.G.A.1

CCSS.MATH.CONTENT.8.G.A.1.A

CCSS.MATH.CONTENT.8.G.A.1.B

CCSS.MATH.CONTENT.8.G.A.1.C

CCSS.MATH.CONTENT.8.G.A.2

6-2 Constructing Rotations/Properties of Rotations

CCSS.MATH.CONTENT.8.G.A.1

CCSS.MATH.CONTENT.8.G.A.1.A

CCSS.MATH.CONTENT.8.G.A.1.B

CCSS.MATH.CONTENT.8.G.A.1.C

CCSS.MATH.CONTENT.8.G.A.2

CCSS.MATH.CONTENT.8.G.A.3

CCSS.MATH.CONTENT.8.G.A.4

6-3 Constructing Reflections/Properties of Reflections

CCSS.MATH.CONTENT.8.G.A.1

CCSS.MATH.CONTENT.8.G.A.1.A

CCSS.MATH.CONTENT.8.G.A.1.B

CCSS.MATH.CONTENT.8.G.A.1.C

CCSS.MATH.CONTENT.8.G.A.2

CCSS.MATH.CONTENT.8.G.A.3

CCSS.MATH.CONTENT.8.G.A.4

6-4 Constructing Translations/Properties of Translations

CCSS.MATH.CONTENT.8.G.A.1

CCSS.MATH.CONTENT.8.G.A.1.A

CCSS.MATH.CONTENT.8.G.A.1.B

CCSS.MATH.CONTENT.8.G.A.1.C

CCSS.MATH.CONTENT.8.G.A.2

CCSS.MATH.CONTENT.8.G.A.3

CCSS.MATH.CONTENT.8.G.A.4

6-5 Constructing Dilatations/Properties of Dilatations

CCSS.MATH.CONTENT.8.G.A.3

CCSS.MATH.CONTENT.8.G.A.4

6-6 Identifying a Series and Determining Congruence or Similarity

CCSS.MATH.CONTENT.8.G.A.2

CCSS.MATH.CONTENT.8.G.A.4

6-7 The Sum of Angles in a Triangle

CCSS.MATH.CONTENT.8.G.A.4

CCSS.MATH.CONTENT.8.G.A.5

6-8 Similar Triangles

CCSS.MATH.CONTENT.8.G.A.5

6-9 Parallel Lines Cut by a Transversal

CCSS.MATH.CONTENT.8.G.A.5

Unit 7 - Geometry

7-1 Pythagorean Theorem and its Converse

CCSS.MATH.CONTENT.8.G.B.6

7-2 2D Applications of Pythagorean Theorem

CCSS.MATH.CONTENT.8.G.B.7

7-3 3D Applications of Pythagorean Theorem

CCSS.MATH.CONTENT.8.G.B.7

7-4 Pythagorean Theorem and Distance Between Points in a Coordinate System

CCSS.MATH.CONTENT.8.G.B.8

7-5 Volume of Cylinders, Cones, and Spheres

CCSS.MATH.CONTENT.8.G.C.9

7-6 Solving for a Missing Dimension

CCSS.MATH.CONTENT.8.G.C.9

7-7 Volume of Composite Shapes

CCSS.MATH.CONTENT.8.G.C.9