



Curriculum Map

Unit 1 - Foundations of Algebra

1-1 Variables and Expressions

CCSS.MATH.CONTENT.HSA.SSE.A.1

CCSS.MATH.CONTENT.HSA.SSE.A.1.A

CCSS.MATH.CONTENT.HSA.SSE.B.3

1-2 Order of Operations and Evaluating Expressions

CCSS.MATH.CONTENT.HSN.RN.A.2

CCSS.MATH.CONTENT.HSA.SSE.B.3

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

1-3 Real Numbers and the Number Line

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

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

1-4 Properties of Real Numbers

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

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

1-5 Adding and Subtracting Real Numbers

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

CCSS.MATH.CONTENT.HSA.SSE.B.3

1-6 Multiplying and Dividing Real Numbers

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

CCSS.MATH.CONTENT.HSA.SSE.B.3



1-7 The Distributive Property

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

1-8 An Introduction to Equations

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

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

CCSS.MATH.CONTENT.HSA.CED.A.1

CCSS.MATH.CONTENT.HSA.REI.B.3

CCSS.MATH.CONTENT.HSA.CED.A.3

1-9 Patterns, Equations, and Graphs

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

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

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

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

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

CCSS.MATH.CONTENT.HSA.REI.A.1



Unit 2 - Solving Equations

2-1 Solving One-Step Equations

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

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

CCSS.MATH.CONTENT.HSA.REI.A.1

CCSS.MATH.CONTENT.HSA.REI.A.2

CCSS.MATH.CONTENT.HSA.REI.B.3

2-2 Solving Two-Step Equations

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

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

CCSS.MATH.CONTENT.HSA.REI.A.1

CCSS.MATH.CONTENT.HSA.REI.A.2

CCSS.MATH.CONTENT.HSA.REI.B.3

2-3 Solving Multi-Step Equations

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

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

CCSS.MATH.CONTENT.HSA.REI.A.1

CCSS.MATH.CONTENT.HSA.REI.A.2

CCSS.MATH.CONTENT.HSA.REI.B.3

2-4 Solving Equations with Variables on Both Sides

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

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

CCSS.MATH.CONTENT.HSA.REI.A.1

CCSS.MATH.CONTENT.HSA.REI.A.2



CCSS.MATH.CONTENT.HSA.REI.B.3

2-5 Literal Equations and Formulas

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

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

CCSS.MATH.CONTENT.HSA.REI.A.1

CCSS.MATH.CONTENT.HSA.REI.A.2

CCSS.MATH.CONTENT.HSA.REI.B.3

2-6 Ratios, Rates, and Conversions

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

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

CCSS.MATH.CONTENT.HSN.Q.A.1

CCSS.MATH.CONTENT.HSN.Q.A.2

CCSS.MATH.CONTENT.HSN.Q.A.3

2-7 Solving Proportions

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

2-8 Proportions and Similar Figures

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

CCSS.MATH.CONTENT.HSG.SRT.A.2

2-9 Percentages

CCSS.MATH.CONTENT.HSF.LE.A.1.C

2-10 Change Expressed as a Percent

CCSS.MATH.CONTENT.HSF.IF.C.8.B

CCSS.MATH.CONTENT.HSF.LE.A.1.C

Unit 3 - Solving Inequalities

3-1 Inequalities and Their Graphs

CCSS.MATH.CONTENT.HSA.CED.A.3

CCSS.MATH.CONTENT.HSA.REI.D.12

3-2 Solving Inequalities Using Addition and Subtraction

CCSS.MATH.CONTENT.HSA.REI.B.3

3-3 Solving Inequalities Using Multiplication or Division

CCSS.MATH.CONTENT.HSA.REI.B.3

3-4 Solving Multi-Step Inequalities

CCSS.MATH.CONTENT.HSA.REI.B.3

3-5 Working with Sets

CCSS.MATH.CONTENT.HSA.REI.B.3

3-6 Compound Inequalities

CCSS.MATH.CONTENT.HSA.REI.B.3

CCSS.MATH.CONTENT.HSA.REI.D.12

3-7 Absolute Value Equations and Inequalities

CCSS.MATH.CONTENT.HSA.REI.B.3

CCSS.MATH.CONTENT.HSA.REI.D.12

3-8 Union and Intersection of Sets

CCSS.MATH.CONTENT.HSS.CP.A.1



Unit 4 - An Introduction to Functions

4-1 Using Graphs to Relate Two Quantities

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

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

CCSS.MATH.CONTENT.HSF.IF.B.4

4-2 Patterns and Linear Functions

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

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

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

4-3 Patterns and Nonlinear Functions

CCSS.MATH.CONTENT.HSF.LE.A.3

4-4 Graphing a Function Rule

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

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

4-5 Writing a Function Rule

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

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

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

4-6 Formalizing Relations and Functions

CCSS.MATH.CONTENT.HSF.IF.A.1

CCSS.MATH.CONTENT.HSF.IF.A.2



4-7 Arithmetic Sequences

CCSS.MATH.CONTENT.HSF.BF.A.2

CCSS.MATH.CONTENT.HSF.LE.A.2



Unit 5 - Linear Functions

5-1 Rate of Change and Slope

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

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

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

CCSS.MATH.CONTENT.HSF.IF.B.6

CCSS.MATH.CONTENT.HSF.LE.B.5

5-2 Direct Variation

CCSS.MATH.CONTENT.HSF.IF.B.4

CCSS.MATH.CONTENT.HSF.LE.A.1.A

CCSS.MATH.CONTENT.HSF.LE.A.3

5-3 Slope-Intercept Form

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

CCSS.MATH.CONTENT.HSF.BF.A.1.A

CCSS.MATH.CONTENT.HSF.BF.A.1.B

CCSS.MATH.CONTENT.HSF.LE.B.5

5-4 Point-Slope Form

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

CCSS.MATH.CONTENT.HSF.BF.A.1.B

CCSS.MATH.CONTENT.HSF.LE.B.5

5-5 Standard Form

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

CCSS.MATH.CONTENT.HSF.BF.A.1.B



CCSS.MATH.CONTENT.HSF.LE.B.5

5-6 Parallel and Perpendicular Lines

CCSS.MATH.CONTENT.HSG.GPE.B.5

5-7 Scatter Plots and Trend Lines

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

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

CCSS.MATH.CONTENT.HSF.IF.A.1

CCSS.MATH.CONTENT.HSF.IF.B.4

CCSS.MATH.CONTENT.HSA.REI.D.10

5-8 Graphing Absolute Value Functions

CCSS.MATH.CONTENT.HSF.IF.C.7

CCSS.MATH.CONTENT.HSF.IF.C.7.B



Unit 6 - Systems of Equations and Inequalities

6-1 Solving Systems by Graphing

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

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

CCSS.MATH.CONTENT.HSA.REI.C.6

CCSS.MATH.CONTENT.HSA.REI.D.11

6-2 Solving Systems Using Substitution

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

CCSS.MATH.CONTENT.HSA.REI.C.5

CCSS.MATH.CONTENT.HSA.REI.C.6

6-3 Solving Systems Using Elimination

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

CCSS.MATH.CONTENT.HSA.REI.C.5

CCSS.MATH.CONTENT.HSA.REI.C.6

6-4 Applications of Linear Systems

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

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

CCSS.MATH.CONTENT.HSA.REI.C.6

6-5 Linear Inequalities

CCSS.MATH.CONTENT.HSA.REI.B.3

CCSS.MATH.CONTENT.HSA.REI.D.12

6-6 Systems of Linear Inequalities

CCSS.MATH.CONTENT.HSA.REI.D.12

Unit 7 - Exponents and Exponential Functions

7-1 Zero and Negative Exponents

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

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

7-2 Multiplying Powers with the Same Base

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

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

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

CCSS.MATH.CONTENT.HSN.RN.B.3

7-3 More Multiplication Properties of Exponents

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

CCSS.MATH.CONTENT.HSN.RN.B.3

7-4 Division Properties of Exponents

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

7-5 Rational Exponents and Radicals

CCSS.MATH.CONTENT.HSN.RN.A.1

CCSS.MATH.CONTENT.HSN.RN.A.2

7-6 Exponential Functions

CCSS.MATH.CONTENT.HSF.IF.C.7.E

CCSS.MATH.CONTENT.HSA.CED.A.1

CCSS.MATH.CONTENT.HSF.BF.A.1.B

CCSS.MATH.CONTENT.HSF.LE.A.1



CCSS.MATH.CONTENT.HSF.LE.A.2

CCSS.MATH.CONTENT.HSF.LE.B.5

7-7 Exponential Growth and Decay

CCSS.MATH.CONTENT.HSF.LE.A.3

7-8 Geometric Sequences

CCSS.MATH.CONTENT.HSF.BF.A.2

CCSS.MATH.CONTENT.HSA.SSE.B.4



Unit 8 - Polynomials and Factoring

8-1 Adding and Subtracting Polynomials

CCSS.MATH.CONTENT.HSA.APR.A.1

8-2 Multiplying and Factoring

CCSS.MATH.CONTENT.HSA.APR.A.1

8-3 Multiplying Binomials

CCSS.MATH.CONTENT.HSA.APR.A.1

8-4 Multiplying Special Cases

CCSS.MATH.CONTENT.HSA.APR.C.4

CCSS.MATH.CONTENT.HSA.SSE.A.2

8-5 Factoring $x^2 + bx + c$

CCSS.MATH.CONTENT.HSA.REI.B.4.B

CCSS.MATH.CONTENT.HSF.IF.C.8.A

8-6 Factoring $ax^2 + bx + c$

CCSS.MATH.CONTENT.HSA.REI.B.4.B

8-7 Factoring Special Cases

CCSS.MATH.CONTENT.HSA.REI.B.4.B

8-8 Factoring by Grouping

CCSS.MATH.CONTENT.HSA.REI.B.4.B



Unit 9 - Quadratic Functions and Equations

9-1 Quadratic Graphs and Their Properties

CCSS.MATH.CONTENT.HSF.IF.C.7

CCSS.MATH.CONTENT.HSF.IF.C.7.A

9-2 Quadratic Functions

CCSS.MATH.CONTENT.HSA.CED.A.1

CCSS.MATH.CONTENT.HSF.IF.C.7.A

CCSS.MATH.CONTENT.HSF.IF.C.8.A

CCSS.MATH.CONTENT.HSF.IF.C.9

9-3 Solving Quadratic Equations

CCSS.MATH.CONTENT.HSA.REI.B.4

CCSS.MATH.CONTENT.HSA.REI.B.4.A

CCSS.MATH.CONTENT.HSA.REI.B.4.B

9-4 Factoring to Solve Quadratic Equations

CCSS.MATH.CONTENT.HSF.IF.C.8.A

9-5 Completing the Square

CCSS.MATH.CONTENT.HSF.IF.C.8.A

9-6 The Quadratic Formula and the Discriminant

CCSS.MATH.CONTENT.HSA.REI.B.4.A

CCSS.MATH.CONTENT.HSA.REI.B.4.B

9-7 Linear, Quadratic, and Exponential Models

CCSS.MATH.CONTENT.HSF.LE.A.1

CCSS.MATH.CONTENT.HSF.LE.A.1.A



CCSS.MATH.CONTENT.HSF.LE.A.1.B

CCSS.MATH.CONTENT.HSF.LE.A.1.C

CCSS.MATH.CONTENT.HSF.LE.A.2

CCSS.MATH.CONTENT.HSF.LE.B.5

9-8 Systems of Linear and Quadratic Equations

CCSS.MATH.CONTENT.HSA.REI.C.7



Unit 10 - Radical Expressions and Equations

10-1 Pythagorean Theorem

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

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

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

CCSS.MATH.CONTENT.HSG.SRT.C.8

10-2 Simplifying Radicals

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

CCSS.MATH.CONTENT.HSN.RN.A.1

CCSS.MATH.CONTENT.HSN.RN.A.

10-3 Operations with Radical Expressions

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

CCSS.MATH.CONTENT.HSN.RN.A.1

CCSS.MATH.CONTENT.HSN.RN.A.2

10-4 Solving Radical Equations

CCSS.MATH.CONTENT.HSA.REI.A.2

10-5 Graphing Square Root Functions

CCSS.MATH.CONTENT.HSF.IF.A.1

CCSS.MATH.CONTENT.HSF.IF.A.2

CCSS.MATH.CONTENT.HSF.IF.C.7.B

10-6 Trigonometric Ratios

CCSS.MATH.CONTENT.HSG.SRT.C.6

CCSS.MATH.CONTENT.HSG.SRT.C.7



CCSS.MATH.CONTENT.HSG.SRT.C.8



Unit 11 - Rational Expressions and Functions

11-1 Simplifying Rational Expressions

CCSS.MATH.CONTENT.HSA.SSE.A.1

CCSS.MATH.CONTENT.HSA.SSE.A.1.A

CCSS.MATH.CONTENT.HSA.APR.A.1

11-2 Multiplying and Dividing Rational Expressions

CCSS.MATH.CONTENT.HSA.APR.A.1

CCSS.MATH.CONTENT.HSA.APR.D.7

11-3 Dividing Polynomials

CCSS.MATH.CONTENT.HSA.APR.D.7

CCSS.MATH.CONTENT.HSA.APR.D.6

11-4 Adding and Subtracting Rational Expressions

CCSS.MATH.CONTENT.HSA.APR.A.1

CCSS.MATH.CONTENT.HSA.APR.D.7

11-5 Solving Rational Expressions

CCSS.MATH.CONTENT.HSA.APR.D.7

11-6 Inverse Variation

CCSS.MATH.CONTENT.HSA.SSE.B.3

11-7 Graphing Rational Functions

CCSS.MATH.CONTENT.HSF.IF.C.7

CCSS.MATH.CONTENT.HSF.IF.C.7.D



Unit 12 - Data Analysis and Probability

12-1 Organizing Data Using Matrices

CCSS.MATH.CONTENT.HSN.VM.C.6

CCSS.MATH.CONTENT.HSN.VM.C.7

12-2 Frequency and Histograms

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

CCSS.MATH.CONTENT.HSS.ID.A.1

CCSS.MATH.CONTENT.HSS.ID.B.5

12-3 Measures of Central Tendency and Dispersion

CCSS.MATH.CONTENT.HSS.ID.A.2

CCSS.MATH.CONTENT.HSS.ID.A.3

CCSS.MATH.CONTENT.HSS.ID.A.4

12-4 Box-and-Whisker Plots

CCSS.MATH.CONTENT.HSS.ID.A.1

12-5 Samples and Surveys

CCSS.MATH.CONTENT.HSS.CP.A.1

CCSS.MATH.CONTENT.HSS.IC.B.3

CCSS.MATH.CONTENT.HSS.IC.B.4

12-6 Permutations and Combinations

CCSS.MATH.CONTENT.HSS.CP.B.9

12-7 Theoretical and Experimental Probability

CCSS.MATH.CONTENT.HSS.ID.B.5

CCSS.MATH.CONTENT.HSS.ID.B.6



CCSS.MATH.CONTENT.HSS.ID.B.6.A

CCSS.MATH.CONTENT.HSS.ID.B.6.B

CCSS.MATH.CONTENT.HSS.ID.B.6.C

12-8 Probability of Compound Events

CCSS.MATH.CONTENT.HSS.ID.C.7

CCSS.MATH.CONTENT.HSS.ID.C.8

CCSS.MATH.CONTENT.HSS.ID.C.9

CCSS.MATH.CONTENT.HSS.MD.B.6

CCSS.MATH.CONTENT.HSS.MD.B.7