



Curriculum Map

Unit 1 – The Foundations of Algebra

1-1 The Real Number System

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

1-2 Operations on Integers

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

1-3 Simplifying Numerical Expressions (Order of Operations)

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

1-4 Rational Numbers

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

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

1-5 Approximating Square Roots

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

1-6 Constants, 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

1-7 Evaluating Algebraic Expressions

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

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



1-8 The Distributive Property

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

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

1-9 The Cummulative and Associative Properties

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

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

1-10 Operations on Polynomials (Addition and Subtraction)

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

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

1-11 Operation on Polynomials (Multiplication and Division)

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

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

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

Unit 2 – Special Products and Factoring

2-1 Multiplying Binomials

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

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

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



2-2 Solving Two-Step Equations

CCSS.MATH.CONTENT.7.EE.A.1

CCSS.MATH.CONTENT.6.EE.B.7

2-3 Solving Multi-Step Equations

CCSS.MATH.CONTENT.7.EE.A.1

CCSS.MATH.CONTENT.6.EE.B.7

2-4 Solving Equations with Variables on Both Sides

CCSS.MATH.CONTENT.7.EE.A.1

CCSS.MATH.CONTENT.6.EE.B.7

2-5 Literal Equations and Formulas

CCSS.MATH.CONTENT.7.EE.A.1

CCSS.MATH.CONTENT.6.EE.B.7

2-6 Ratios, Rates, and Conversions

CCSS.MATH.CONTENT.6.RP.A.1

CCSS.MATH.CONTENT.6.RP.A.2

CCSS.MATH.CONTENT.5.MD.A.1

2-7 Solving Proportions

CCSS.MATH.CONTENT.6.RP.A.1

CCSS.MATH.CONTENT.6.RP.A.2



2-8 Proportions and Similar Figures

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

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

2-9 Percentages

CCSS.MATH.CONTENT.6.RP.A.3.C

CCSS.MATH.CONTENT.7.RP.A.3

2-10 Change Expressed as a Percent

CCSS.MATH.CONTENT.6.RP.A.3.C

CCSS.MATH.CONTENT.7.RP.A.3

Unit 3 – Solving Equations and Inequalities

3-1 Inequalities and Their Graphs

CCSS.MATH.CONTENT.6.EE.B.5

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

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.HSF.IF.B.4

4-2 Patterns and Linear Functions

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

4-3 Patterns and Nonlinear Functions

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



4-4 Graphing a Function Rule

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

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

4-5 Writing a Function Rule

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

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

4-6 Formalizing Relations and Functions

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

CCSS.MATH.CONTENT.HSF.IF.B.5

4-7 Arithmetic Sequences

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

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

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

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

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

Unit 5 - Linear Functions

5-1 Rate of Change and Slope

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



5-2 Direct Variation

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

5-3 Slope-Intercept Form

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

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

5-4 Point-Slope Form

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

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

5-5 Standard Form

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

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

5-6 Parallel and Perpendicular Lines

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

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

5-7 Scatter Plots and Trend Lines

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

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

5-8 Graphing Absolute Value Functions

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



Unit 6 – Systems of Equations and Inequalities

6-1 Solving Systems by Graphing

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

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

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

6-2 Solving Linear Systems by Substitution

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

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

6-3 Solving Linear Systems Using Elimination

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

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

6-4 Applications of Linear Systems

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

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

6-5 Linear Inequalities

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

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.HSF.IF.C.8.b

CCSS.Math.Content.HSA.SSE.B.3.c

7-2 Multiplying Powers with the Same Base

CCSS.Math.Content.HSA.SSE.B.3.c

CCSS.Math.Content.HSA.SSE.B.3.c

7-3 More Multiplication Properties of Exponents

CCSS.Math.Content.HSF.IF.C.8.b

CCSS.Math.Content.HSA.SSE.B.3.c

7-4 Division Properties of Exponents

CCSS.Math.Content.HSF.IF.C.8.b

CCSS.Math.Content.HSA.SSE.B.3.c

7-5 Rational Exponents and Radicals

CCSS.Math.Content.HSF.IF.C.8.b

CCSS.Math.Content.HSA.SSE.B.3.c

7-6 Exponential Functions

CCSS.Math.Content.HSF.IF.C.8.b

CCSS.Math.Content.HSA.SSE.B.3.c



7-7 Exponential Growth and Decay

CCSS.Math.Content.HSF.IF.C.8.b

CCSS.Math.Content.HSA.SSE.B.3.c

7-8 Geometric Sequences

CCSS.Math.Content.HSA.SSE.A.1.a

CCSS.Math.Content.HSA.SSE.B.4

Unit 8 – Polynomials and Factoring

8-1 Adding and Subtracting Polynomials

CCSS.Math.Content.HSA.SSE.A.1.a

CCSS.Math.Content.HSA.APR.A.1

8-2 Multiplying and Factoring

CCSS.Math.Content.HSA.APR.A.1

CCSS.Math.Content.HSA.SSE.A.2

8-3 Multiplying Binomials

CCSS.Math.Content.HSA.APR.A.1

8-4 Multiplying Special Cases

CCSS.Math.Content.HSA.APR.A.1



8-5 Factoring x^2 plus bx plus c

CCSS.Math.Content.HSA.SSE.A.1.a

CCSS.Math.Content.HSA.SSE.A.2

8-6 Factoring ax^2 plus bx plus c

CCSS.Math.Content.HSA.SSE.A.1.a

CCSS.Math.Content.HSA.SSE.A.2

8-7 Factoring Special Case

CCSS.Math.Content.HSA.SSE.A.1.a

CCSS.Math.Content.HSA.SSE.A.2

8-8 Factoring by Grouping

CCSS.Math.Content.HSA.SSE.A.1.a

CCSS.Math.Content.HSA.SSE.A.2

Unit 9 - Exponents and Exponential Functions

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.HSF.IF.C.7

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



9-3 Solving Quadratic Equations

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

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

9-4 Factoring to Solve Quadratic Equations

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

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

9-5 Completing the Square

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

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

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

9-6 The Quadratic Formula and the Discriminant

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

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

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

9-7 Linear, Quadratic and Exponential Models

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

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

9-8 Systems of Linear and Quadratic Equations

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

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



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

10-2 Simplifying Radical

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.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.B.3

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

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

11-2 Multiplying and Dividing Rational Expressions

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

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

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

11-3 Dividing Polynomials

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

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

11-4 Adding and Subtracting Rational Expressions

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

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

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



11-5 Solving Rational Expressions

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

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

11-6 Inverse Variation

CCSS.Math.Content.7.RP.A.1

CCSS.Math.Content.7.RP.A.2.c

11-7 Graphing Rational Functions

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

CCSS.Math.Content.HSF.BF.B.3

Unit 12 – Data Analysis and Probability

12-1 Organizing Data Using Matrices

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

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

12-2 Frequency and Histogram

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.4

CCSS.MATH.CONTENT.6.SP.A.2

12-4 Box and Whiskers Plots

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

CCSS.MATH.CONTENT.6.SP.B.4

12-5 Samples and Surveys

CCSS.Math.Content.HSS.IC.A.1

CCSS.Math.Content.HSS.IC.B.3

CCSS.Math.Content.HSS.IC.B.4

12-6 Permutation and Combination

CCSS.Math.Content.7.SP.C.6

CCSS.Math.Content.7.SP.C.5

12-7 Theoretical and Experimental Probability

CCSS.Math.Content.7.SP.C.8.a

CCSS.Math.Content.7.SP.C.5

12-8 Probability of Compound Events

CCSS.Math.Content.7.SP.C.7.a

CCSS.Math.Content.7.SP.C.7.b