



Curriculum Map with CCSS

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 Expressions

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

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

1-8 Equivalent Expressions

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



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

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

1-9 Operations on Polynomials: Addition and Subtraction

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

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

1-10 Operations 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 Square of a Binomial

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

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

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

2-3 Square of a Trinomial

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

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

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



2-4 Sum and Difference of Two Terms

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

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

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

2-5 Cube of a Binomial

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

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

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

2-6 Factoring the Common Monomial Factor

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

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

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

2-7 Factoring the Difference of Two Squares

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

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

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

2-8 Factoring a Perfect Square Trinomial

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

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

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

2-9 Factoring a General Trinomial

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

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

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



2-10 Factoring the Sum and Difference of Two Cubes

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

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

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

2-11 Factoring by Grouping

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

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

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

Unit 3 – Solving Equations and Inequalities in One Variable

3-1 Solving Equations Using Properties of Equality

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

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

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

3-2 Solving Equations Involving Factored Expressions

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

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

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

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

3-3 Solving Equations Involving Variables in the Denominator

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

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

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

3-4 Literal Equations and Formulas



CCSS.MATH.CONTENT.HSA.CED.A.4

3-5 Inequalities and Their Graphs

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

3-6 Solving Inequalities Using Addition and Subtraction

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

3-7 Solving Inequalities Using Multiplication and Division

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

3-8 Solving and Graphing Compound Inequalities

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

Unit 4 – Relations and Functions

4-1 Relations: Definition and Representation

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

4-2 Functions: Definition and Representation

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

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

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

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

4-3 The Function Notation

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

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

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

4-4 The Composition of Functions



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.C

4-5 Writing a Function Rule

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

4-6 Graph of a Function

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

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

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

Unit 5 - Linear Functions and Equations

5-1 Linear Functions: Defined and Described

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

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

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

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

5-2 Domain and Range of Linear Functions

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

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



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

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

5-3 Standard Form and Slope-Intercept Form of Linear Equations

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

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

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

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

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

5-4 Slope and Intercepts of a Line

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

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

5-5 Determining Points on the Line

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

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

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

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

5-6 Graphing Linear Equations

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

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

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

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

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

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

5-7 Finding the Equation of the Line

CCSS.MATH.CONTENT.HSA.CED.A.2



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

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

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

Unit 6 – Linear Inequalities and Their Graphs

6-1 Linear Inequality in Two Variables Defined

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

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

6-2 Solutions of Linear Inequalities in Two Variables

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

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

6-3 Graphs of Linear Inequalities

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

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

Unit 7 - Systems of Linear Equations and Inequalities

7-1 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.CED.A.3

7-2 Solving Systems Using Substitution

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

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



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

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

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

7-3 Solving Systems Using Elimination

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

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

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

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

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

7-4 Applications of Linear Systems

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

7-5 Systems of Linear Inequalities

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

Unit 8 - Quadratic Functions and Equations

8-1 Quadratic Functions Defined

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

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

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

8-2 The Graph of Quadratic Functions

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

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

8-3 Solving Quadratic Equations by Extracting Square Roots



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

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

8-4 Solving Quadratic Equations by Factoring

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

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

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

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

8-5 Solving Quadratic Equations by Completing the Square

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

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

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

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

8-6 Solving Quadratic Equations by Using the Quadratic Formula

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

8-7 Discriminant and Nature of Roots

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

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

8-8 Systems of Linear and Quadratic Equations

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

Unit 9 - Exponents and Exponential Functions

9-1 Positive Integral Exponents

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



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

9-2 Zero and Negative Exponents

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

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

9-3 Simplifying Exponential Expressions

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

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

9-4 Rational Exponents and Radicals

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

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

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

9-5 Exponential Functions Defined

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

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

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

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

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

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

9-6 The Graph of an Exponential Function

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

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

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

9-7 Exponential Equations



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

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

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

9-8 Exponential Growth and Decay

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

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

Unit 10 – Rational and Radical Expressions and Equations

10-1 Simplifying Rational Expressions

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

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

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

10-2 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

10-3 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

10-4 Solving Rational Expressions

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

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



10-5 Simplifying Radicals

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

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

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

10-6 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

10-7 Solving Radical Equations

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

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

10-8 Graphing Square Root Functions

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

Unit 11 – Sequences and Series

11-1 Sequences Defined

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

CCSS.MATH.CONTENT.HSF.IF.A.3

11-2 Recursive Formula for Sequences

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

CCSS.MATH.CONTENT.HSF.IF.A.3

11-3 Arithmetic Sequence

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



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

CCSS.MATH.CONTENT.HSF.IF.A.3

11-4 Geometric Sequence

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

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

CCSS.MATH.CONTENT.HSF.IF.A.3

11-5 Other Types of Sequences

CCSS.MATH.CONTENT.HSF.IF.A.3

11-6 The Binomial Theorem

CCSS.MATH.CONTENT.HSA.APR.C.5

Unit 12 – Statistics and Probability

12-1 Shapes of Distributions

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

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

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

12-2 The Center of Data Distributions

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

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

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

12-3 Measure of Variability for Symmetrical and Skewed Distribution

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



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

12-4 Categorical Data on Two Variables

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

12-5 Numerical Data on Two Variables

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

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

12-6 Permutations and Combinations

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

12-7 Probability of Compound Events

CCSS.MATH.CONTENT.HSS.CP.B.6

CCSS.MATH.CONTENT.HSS.CP.B.7

CCSS.MATH.CONTENT.HSS.CP.B.8

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

12-8 Probability of Independent Events

CCSS.MATH.CONTENT.HSS.CP.A.2