**Curriculum Map with CCSS**

**Unit 1 – The Foundations of Algebra**

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| **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](http://www.corestandards.org/Math/Content/8/NS/A/1/)[CCSS.MATH.CONTENT.HSN.RN.B.3](http://www.corestandards.org/Math/Content/HSN/RN/B/3/) |  |  |
| **1-5** | **Approximating Square Roots**[CCSS.MATH.CONTENT.8.NS.A.2](http://www.corestandards.org/Math/Content/8/NS/A/2/) |  |  |
| **1-6** | **Constants, Variables and Expressions**CCSS.MATH.CONTENT.HSA.SSE.A.1CCSS.MATH.CONTENT.HSA.SSE.A.1.ACCSS.MATH.CONTENT.HSA.SSE.B.3 |  |  |
| **1-7** | **Evaluating Expressions**CCSS.MATH.CONTENT.HSN.RN.A.2CCSS.MATH.CONTENT.HSA.SSE.B.3 |  |  |
| **1-8** | **Equivalent Expressions**[CCSS.MATH.CONTENT.HSA.APR.A.1](http://www.corestandards.org/Math/Content/HSA/APR/A/1/)[CCSS.MATH.CONTENT.HSA.SSE.A.2](http://www.corestandards.org/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](http://www.corestandards.org/Math/Content/HSA/APR/A/1/)[CCSS.MATH.CONTENT.HSA.SSE.B.3](http://www.corestandards.org/Math/Content/HSA/SSE/B/3/) |  |  |
| **1-10** | **Operations on Polynomials: Multiplication and Division** [CCSS.MATH.CONTENT.HSA.APR.A.1](http://www.corestandards.org/Math/Content/HSA/APR/A/1/)[CCSS.MATH.CONTENT.HSA.APR.D.6](http://www.corestandards.org/Math/Content/HSA/APR/D/6/)[CCSS.MATH.CONTENT.HSA.SSE.B.3](http://www.corestandards.org/Math/Content/HSA/SSE/B/3/) |  |  |

**Unit 2 – Special Products and Factoring**

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| **2-1** | **Multiplying Binomials** [CCSS.MATH.CONTENT.HSA.APR.A.1](http://www.corestandards.org/Math/Content/HSA/APR/A/1/)[CCSS.MATH.CONTENT.HSA.SSE.A.2](http://www.corestandards.org/Math/Content/HSA/SSE/A/2/)[CCSS.MATH.CONTENT.HSA.SSE.B.3](http://www.corestandards.org/Math/Content/HSA/SSE/B/3/) |  |  |
| **2-2** | **Square of a Binomial**[CCSS.MATH.CONTENT.HSA.APR.A.1](http://www.corestandards.org/Math/Content/HSA/APR/A/1/)[CCSS.MATH.CONTENT.HSA.SSE.A.2](http://www.corestandards.org/Math/Content/HSA/SSE/A/2/)[CCSS.MATH.CONTENT.HSA.SSE.B.3](http://www.corestandards.org/Math/Content/HSA/SSE/B/3/) |  |  |
| **2-3** | **Square of a Trinomial**[CCSS.MATH.CONTENT.HSA.APR.A.1](http://www.corestandards.org/Math/Content/HSA/APR/A/1/)[CCSS.MATH.CONTENT.HSA.SSE.A.2](http://www.corestandards.org/Math/Content/HSA/SSE/A/2/)[CCSS.MATH.CONTENT.HSA.SSE.B.3](http://www.corestandards.org/Math/Content/HSA/SSE/B/3/) |  |  |
| **2-4** | **Sum and Difference of Two Terms**[CCSS.MATH.CONTENT.HSA.APR.A.1](http://www.corestandards.org/Math/Content/HSA/APR/A/1/)[CCSS.MATH.CONTENT.HSA.SSE.A.2](http://www.corestandards.org/Math/Content/HSA/SSE/A/2/)[CCSS.MATH.CONTENT.HSA.SSE.B.3](http://www.corestandards.org/Math/Content/HSA/SSE/B/3/) |  |  |
| **2-5** | **Cube of a Binomial**[CCSS.MATH.CONTENT.HSA.APR.A.1](http://www.corestandards.org/Math/Content/HSA/APR/A/1/)[CCSS.MATH.CONTENT.HSA.SSE.A.2](http://www.corestandards.org/Math/Content/HSA/SSE/A/2/)[CCSS.MATH.CONTENT.HSA.SSE.B.3](http://www.corestandards.org/Math/Content/HSA/SSE/B/3/) |  |  |
| **2-6** | **Factoring the Common Monomial Factor**[CCSS.MATH.CONTENT.HSA.APR.A.1](http://www.corestandards.org/Math/Content/HSA/APR/A/1/)[CCSS.MATH.CONTENT.HSA.SSE.A.2](http://www.corestandards.org/Math/Content/HSA/SSE/A/2/)[CCSS.MATH.CONTENT.HSA.SSE.B.3](http://www.corestandards.org/Math/Content/HSA/SSE/B/3/) |  |  |
| **2-7** | **Factoring the Difference of Two Squares**[CCSS.MATH.CONTENT.HSA.APR.A.1](http://www.corestandards.org/Math/Content/HSA/APR/A/1/)[CCSS.MATH.CONTENT.HSA.SSE.A.2](http://www.corestandards.org/Math/Content/HSA/SSE/A/2/)[CCSS.MATH.CONTENT.HSA.SSE.B.3](http://www.corestandards.org/Math/Content/HSA/SSE/B/3/) |  |  |
| **2-8** | **Factoring a Perfect Square Trinomial**[CCSS.MATH.CONTENT.HSA.APR.A.1](http://www.corestandards.org/Math/Content/HSA/APR/A/1/)[CCSS.MATH.CONTENT.HSA.SSE.A.2](http://www.corestandards.org/Math/Content/HSA/SSE/A/2/)[CCSS.MATH.CONTENT.HSA.SSE.B.3](http://www.corestandards.org/Math/Content/HSA/SSE/B/3/) |  |  |
| **2-9** | **Factoring a General Trinomial**[CCSS.MATH.CONTENT.HSA.APR.A.1](http://www.corestandards.org/Math/Content/HSA/APR/A/1/)[CCSS.MATH.CONTENT.HSA.SSE.A.2](http://www.corestandards.org/Math/Content/HSA/SSE/A/2/)[CCSS.MATH.CONTENT.HSA.SSE.B.3](http://www.corestandards.org/Math/Content/HSA/SSE/B/3/) |  |  |
| **2-10** | **Factoring the Sum and Difference of Two Cubes**[CCSS.MATH.CONTENT.HSA.APR.A.1](http://www.corestandards.org/Math/Content/HSA/APR/A/1/)[CCSS.MATH.CONTENT.HSA.SSE.A.2](http://www.corestandards.org/Math/Content/HSA/SSE/A/2/)[CCSS.MATH.CONTENT.HSA.SSE.B.3](http://www.corestandards.org/Math/Content/HSA/SSE/B/3/) |  |  |
| **2-11** | **Factoring by Grouping**[CCSS.MATH.CONTENT.HSA.APR.A.1](http://www.corestandards.org/Math/Content/HSA/APR/A/1/)[CCSS.MATH.CONTENT.HSA.SSE.A.2](http://www.corestandards.org/Math/Content/HSA/SSE/A/2/)[CCSS.MATH.CONTENT.HSA.SSE.B.3](http://www.corestandards.org/Math/Content/HSA/SSE/B/3/) |  |  |

**Unit 3 – Solving Equations and Inequalities in One Variable**

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| **3-1** | **Solving Equations Using Properties of Equality**[CCSS.MATH.CONTENT.8.EE.C.7](http://www.corestandards.org/Math/Content/8/EE/C/7/)[CCSS.MATH.CONTENT.HSA.REI.A.1](http://www.corestandards.org/Math/Content/HSA/REI/A/1/)[CCSS.MATH.CONTENT.HSA.REI.B.3](http://www.corestandards.org/Math/Content/HSA/REI/B/3/) |  |  |
| **3-2** | **Solving Equations Involving Factored Expressions**[CCSS.MATH.CONTENT.8.EE.C.7](http://www.corestandards.org/Math/Content/8/EE/C/7/)[CCSS.MATH.CONTENT.HSA.REI.A.1](http://www.corestandards.org/Math/Content/HSA/REI/A/1/)[CCSS.MATH.CONTENT.HSA.REI.B.3](http://www.corestandards.org/Math/Content/HSA/REI/B/3/)[CCSS.MATH.CONTENT.HSA.REI.B.4.B](http://www.corestandards.org/Math/Content/HSA/REI/B/4/b/) |  |  |
| **3-3** | **Solving Equations Involving Variables in the Denominator**[CCSS.MATH.CONTENT.8.EE.C.7](http://www.corestandards.org/Math/Content/8/EE/C/7/)[CCSS.MATH.CONTENT.HSA.REI.A.1](http://www.corestandards.org/Math/Content/HSA/REI/A/1/)[CCSS.MATH.CONTENT.HSA.REI.B.3](http://www.corestandards.org/Math/Content/HSA/REI/B/3/) |  |  |
| **3-4** | **Literal Equations and Formulas**[CCSS.MATH.CONTENT.HSA.CED.A.4](http://www.corestandards.org/Math/Content/HSA/CED/A/4/) |  |  |
| **3-5** | **Inequalities and Their Graphs**[CCSS.MATH.CONTENT.HSA.REI.D.12](http://www.corestandards.org/Math/Content/HSA/REI/D/12/) |  |  |
| **3-6** | **Solving Inequalities Using Addition and Subtraction**[CCSS.MATH.CONTENT.HSA.REI.B.3](http://www.corestandards.org/Math/Content/HSA/REI/B/3/) |  |  |
| **3-7** | **Solving Inequalities Using Multiplication and Division**[CCSS.MATH.CONTENT.HSA.REI.B.3](http://www.corestandards.org/Math/Content/HSA/REI/B/3/) |  |  |
| **3-8** | **Solving and Graphing Compound Inequalities**[CCSS.MATH.CONTENT.HSA.REI.B.3](http://www.corestandards.org/Math/Content/HSA/REI/B/3/) |  |  |

**Unit 4 – Relations and Functions**

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| **4-1** | **Relations: Definition and Representation**[CCSS.MATH.CONTENT.HSF.IF.A.1](http://www.corestandards.org/Math/Content/HSF/IF/A/1/) |  |  |
| **4-2** | **Functions: Definition and Representation**[CCSS.MATH.CONTENT.8.F.A.1](http://www.corestandards.org/Math/Content/8/F/A/1/)[CCSS.MATH.CONTENT.HSF.IF.A.1](http://www.corestandards.org/Math/Content/HSF/IF/A/1/)[CCSS.MATH.CONTENT.HSF.IF.C.9](http://www.corestandards.org/Math/Content/HSF/IF/C/9/)[CCSS.MATH.CONTENT.HSF.BF.A.1](http://www.corestandards.org/Math/Content/HSF/BF/A/1/) |  |  |
| **4-3** | **The Function Notation**[CCSS.MATH.CONTENT.8.F.A.1](http://www.corestandards.org/Math/Content/8/F/A/1/)[CCSS.MATH.CONTENT.HSF.IF.A.1](http://www.corestandards.org/Math/Content/HSF/IF/A/1/)[CCSS.MATH.CONTENT.HSF.IF.A.2](http://www.corestandards.org/Math/Content/HSF/IF/A/2/) |  |  |
| **4-4** | **The Composition of Functions**[CCSS.MATH.CONTENT.8.F.A.1](http://www.corestandards.org/Math/Content/8/F/A/1/)[CCSS.MATH.CONTENT.HSF.IF.A.1](http://www.corestandards.org/Math/Content/HSF/IF/A/1/)[CCSS.MATH.CONTENT.HSF.IF.A.2](http://www.corestandards.org/Math/Content/HSF/IF/A/2/)[CCSS.MATH.CONTENT.HSF.BF.A.1.C](http://www.corestandards.org/Math/Content/HSF/BF/A/1/c/) |  |  |
| **4-5** | **Writing a Function Rule**[CCSS.MATH.CONTENT.8.F.A.1](http://www.corestandards.org/Math/Content/8/F/A/1/)[CCSS.MATH.CONTENT.HSF.IF.A.1](http://www.corestandards.org/Math/Content/HSF/IF/A/1/)[CCSS.MATH.CONTENT.HSF.IF.A.2](http://www.corestandards.org/Math/Content/HSF/IF/A/2/)[CCSS.MATH.CONTENT.HSF.BF.A.1](http://www.corestandards.org/Math/Content/HSF/BF/A/1/)[CCSS.MATH.CONTENT.HSF.LE.A.2](http://www.corestandards.org/Math/Content/HSF/LE/A/2/) |  |  |
| **4-6** | **Graph of a Function**[CCSS.MATH.CONTENT.HSF.IF.A.1](http://www.corestandards.org/Math/Content/HSF/IF/A/1/)[CCSS.MATH.CONTENT.HSF.IF.A.2](http://www.corestandards.org/Math/Content/HSF/IF/A/2/)[CCSS.MATH.CONTENT.HSF.IF.B.4](http://www.corestandards.org/Math/Content/HSF/IF/B/4/) |  |  |

**Unit 5 - Linear Functions and Equations**

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| **5-1** | **Linear Functions: Defined and Described**[CCSS.MATH.CONTENT.8.F.A.3](http://www.corestandards.org/Math/Content/8/F/A/3/)[CCSS.MATH.CONTENT.HSF.LE.A.1](http://www.corestandards.org/Math/Content/HSF/LE/A/1/)[CCSS.MATH.CONTENT.HSF.LE.A.1.A](http://www.corestandards.org/Math/Content/HSF/LE/A/1/a/)[CCSS.MATH.CONTENT.HSF.LE.A.1.B](http://www.corestandards.org/Math/Content/HSF/LE/A/1/b/) |  |  |
| **5-2** | **Domain and Range of Linear Functions**[CCSS.MATH.CONTENT.8.F.A.1](http://www.corestandards.org/Math/Content/8/F/A/1/)[CCSS.MATH.CONTENT.8.F.A.3](http://www.corestandards.org/Math/Content/8/F/A/3/)[CCSS.MATH.CONTENT.HSF.IF.A.1](http://www.corestandards.org/Math/Content/HSF/IF/A/1/)[CCSS.MATH.CONTENT.HSF.IF.A.2](http://www.corestandards.org/Math/Content/HSF/IF/A/2/) |  |  |
| **5-3** | **Standard Form and Slope-Intercept Form of Linear Equations**[CCSS.MATH.CONTENT.8.EE.B.6](http://www.corestandards.org/Math/Content/8/EE/B/6/)[CCSS.MATH.CONTENT.8.F.A.3](http://www.corestandards.org/Math/Content/8/F/A/3/)CCSS.MATH.CONTENT.8.F.B.4[CSS.MATH.CONTENT.HSA.SSE.A.2](http://www.corestandards.org/Math/Content/HSA/SSE/A/2/)[CCSS.MATH.CONTENT.HSA.SSE.B.3](http://www.corestandards.org/Math/Content/HSA/SSE/B/3/) |  |  |
| **5-4** | **Slope and Intercepts of a Line**[CCSS.MATH.CONTENT.8.EE.B.6](http://www.corestandards.org/Math/Content/8/EE/B/6/)[CCSS.MATH.CONTENT.HSF.LE.A.1](http://www.corestandards.org/Math/Content/HSF/LE/A/1/) |  |  |
| **5-5** | **Determining Points on the Line**[CCSS.MATH.CONTENT.8.EE.B.5](http://www.corestandards.org/Math/Content/8/EE/B/5/)[CCSS.MATH.CONTENT.8.EE.B.6](http://www.corestandards.org/Math/Content/8/EE/B/6/)[CCSS.MATH.CONTENT.HSF.LE.A.2](http://www.corestandards.org/Math/Content/HSF/LE/A/2/)[CCSS.MATH.CONTENT.HSA.REI.D.10](http://www.corestandards.org/Math/Content/HSA/REI/D/10/) |  |  |
| **5-6** | **Graphing Linear Equations**[CCSS.MATH.CONTENT.8.EE.B.5](http://www.corestandards.org/Math/Content/8/EE/B/5/)[CCSS.MATH.CONTENT.8.F.A.2](http://www.corestandards.org/Math/Content/8/F/A/2/)[CCSS.MATH.CONTENT.8.F.A.3](http://www.corestandards.org/Math/Content/8/F/A/3/)[CCSS.MATH.CONTENT.8.F.B.5](http://www.corestandards.org/Math/Content/8/F/B/5/)[CCSS.MATH.CONTENT.HSF.IF.B.4](http://www.corestandards.org/Math/Content/HSF/IF/B/4/)[CCSS.MATH.CONTENT.HSF.IF.C.7.A](http://www.corestandards.org/Math/Content/HSF/IF/C/7/a/) |  |  |
| **5-7** | **Finding the Equation of the Line**[CCSS.MATH.CONTENT.HSA.CED.A.2](http://www.corestandards.org/Math/Content/HSA/CED/A/2/)[CCSS.MATH.CONTENT.HSF.IF.C.8](http://www.corestandards.org/Math/Content/HSF/IF/C/8/)[CCSS.MATH.CONTENT.HSF.BF.A.1](http://www.corestandards.org/Math/Content/HSF/BF/A/1/)[CCSS.MATH.CONTENT.HSF.LE.A.2](http://www.corestandards.org/Math/Content/HSF/LE/A/2/) |  |  |

**Unit 6 – Linear Inequalities and Their Graphs**

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| **6-1** | **Linear Inequality in Two Variables Defined**CCSS.MATH.CONTENT.HSA.CED.A.3CCSS.MATH.CONTENT.HSA.REI.D.12 |  |  |
| **6-2** | **Solutions of Linear Inequalities in Two Variables**CCSS.MATH.CONTENT.HSA.CED.A.3CCSS.MATH.CONTENT.HSA.REI.D.12 |  |  |
| **6-3** | **Graphs of Linear Inequalities**CCSS.MATH.CONTENT.HSA.CED.A.3CCSS.MATH.CONTENT.HSA.REI.D.12 |  |  |

**Unit 7 - Systems of Linear Equations and Inequalities**

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| **7-1** | **Solving Systems by Graphing**[CCSS.MATH.CONTENT.8.EE.C.8](http://www.corestandards.org/Math/Content/8/EE/C/8/)[CCSS.MATH.CONTENT.8.EE.C.8.A](http://www.corestandards.org/Math/Content/8/EE/C/8/a/)[CCSS.MATH.CONTENT.HSA.REI.C.6](http://www.corestandards.org/Math/Content/HSA/REI/C/6/)[CCSS.MATH.CONTENT.HSA.CED.A.3](http://www.corestandards.org/Math/Content/HSA/CED/A/3/) |  |  |
| **7-2** | **Solving Systems Using Substitution**[CCSS.MATH.CONTENT.8.EE.C.8](http://www.corestandards.org/Math/Content/8/EE/C/8/)[CCSS.MATH.CONTENT.8.EE.C.8.B](http://www.corestandards.org/Math/Content/8/EE/C/8/b/)[CCSS.MATH.CONTENT.HSA.REI.C.5](http://www.corestandards.org/Math/Content/HSA/REI/C/5/)[CCSS.MATH.CONTENT.HSA.REI.C.6](http://www.corestandards.org/Math/Content/HSA/REI/C/6/)[CCSS.MATH.CONTENT.HSA.CED.A.3](http://www.corestandards.org/Math/Content/HSA/CED/A/3/) |  |  |
| **7-3** | **Solving Systems Using Elimination**[CCSS.MATH.CONTENT.8.EE.C.8](http://www.corestandards.org/Math/Content/8/EE/C/8/)[CCSS.MATH.CONTENT.8.EE.C.8.B](http://www.corestandards.org/Math/Content/8/EE/C/8/b/)[CCSS.MATH.CONTENT.HSA.REI.C.5](http://www.corestandards.org/Math/Content/HSA/REI/C/5/)[CCSS.MATH.CONTENT.HSA.REI.C.6](http://www.corestandards.org/Math/Content/HSA/REI/C/6/)[CCSS.MATH.CONTENT.HSA.CED.A.3](http://www.corestandards.org/Math/Content/HSA/CED/A/3/) |  |  |
| **7-4** | **Applications of Linear Systems**[CCSS.MATH.CONTENT.8.EE.C.8.C](http://www.corestandards.org/Math/Content/8/EE/C/8/c/) |  |  |
| **7-5** | **Systems of Linear Inequalities**[CCSS.MATH.CONTENT.HSA.REI.D.12](http://www.corestandards.org/Math/Content/HSA/REI/D/12/) |  |  |

**Unit 8 - Quadratic Functions and Equations**

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| **8-1** | **Quadratic Functions Defined**[CCSS.MATH.CONTENT.HSF.IF.A.1](http://www.corestandards.org/Math/Content/HSF/IF/A/1/)CCSS.MATH.CONTENT.HSA.CED.A.1CCSS.MATH.CONTENT.HSF.IF.C.9 |  |  |
| **8-2** | **The Graph of Quadratic Functions**CCSS.MATH.CONTENT.HSF.IF.C.7CCSS.MATH.CONTENT.HSF.IF.C.7.A |  |  |
| **8-3** | **Solving Quadratic Equations by Extracting Square Roots**[CCSS.MATH.CONTENT.HSA.REI.B.4](http://www.corestandards.org/Math/Content/HSA/REI/B/4/)[CCSS.MATH.CONTENT.HSA.REI.B.4.B](http://www.corestandards.org/Math/Content/HSA/REI/B/4/b/) |  |  |
| **8-4** | **Solving Quadratic Equations by Factoring**[CCSS.MATH.CONTENT.HSA.REI.B.4](http://www.corestandards.org/Math/Content/HSA/REI/B/4/)[CCSS.MATH.CONTENT.HSF.IF.C.8.A](http://www.corestandards.org/Math/Content/HSF/IF/C/8/a/)[CCSS.MATH.CONTENT.HSA.SSE.B.3.A](http://www.corestandards.org/Math/Content/HSA/SSE/B/3/a/)[CCSS.MATH.CONTENT.HSA.REI.B.4.B](http://www.corestandards.org/Math/Content/HSA/REI/B/4/b/) |  |  |
| **8-5** | **Solving Quadratic Equations by Completing the Square**[CCSS.MATH.CONTENT.HSA.REI.B.4](http://www.corestandards.org/Math/Content/HSA/REI/B/4/)[CCSS.MATH.CONTENT.HSF.IF.C.8.A](http://www.corestandards.org/Math/Content/HSF/IF/C/8/a/)[CCSS.MATH.CONTENT.HSA.SSE.B.3.B](http://www.corestandards.org/Math/Content/HSA/SSE/B/3/b/)[CCSS.MATH.CONTENT.HSA.REI.B.4.B](http://www.corestandards.org/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](http://www.corestandards.org/Math/Content/HSF/IF/C/8/a/) |  |  |
| **8-7** | **Discriminant and Nature of Roots**CCSS.MATH.CONTENT.HSA.REI.B.4.ACCSS.MATH.CONTENT.HSA.REI.B.4.B |  |  |
| **8-8** | **Systems of Linear and Quadratic Equations**[CCSS.MATH.CONTENT.HSA.REI.C.7](http://www.corestandards.org/Math/Content/HSA/REI/C/7/) |  |  |

**Unit 9 - Exponents and Exponential Functions**

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| **9-1** | **Positive Integral Exponents**[CCSS.MATH.CONTENT.8.EE.A.1](http://www.corestandards.org/Math/Content/8/EE/A/1/)[CCSS.MATH.CONTENT.8.EE.A.3](http://www.corestandards.org/Math/Content/8/EE/A/3/) |  |  |
| **9-2** | **Zero and Negative Exponents**CCSS.MATH.CONTENT. 8.EE.A.1CCSS.MATH.CONTENT.8.EE.A.3 |  |  |
| **9-3** | **Simplifying Exponential Expressions**CCSS.MATH.CONTENT.8.EE.A.1CCSS.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](http://www.corestandards.org/Math/Content/HSN/RN/A/2/)[CCSS.MATH.CONTENT.HSA.SSE.B.3](http://www.corestandards.org/Math/Content/HSA/SSE/B/3/) |  |  |
| **9-5** | **Exponential Functions Defined**[CCSS.MATH.CONTENT.HSF.IF.A.1](http://www.corestandards.org/Math/Content/HSF/IF/A/1/)[CCSS.MATH.CONTENT.HSF.IF.C.7.E](http://www.corestandards.org/Math/Content/HSF/IF/C/7/e/)[CCSS.MATH.CONTENT.HSF.LE.A.1](http://www.corestandards.org/Math/Content/HSF/LE/A/1/)[CCSS.MATH.CONTENT.HSF.LE.A.1.A](http://www.corestandards.org/Math/Content/HSF/LE/A/1/a/)[CCSS.MATH.CONTENT.HSF.LE.A.2](http://www.corestandards.org/Math/Content/HSF/LE/A/2/)[CCSS.MATH.CONTENT.HSF.LE.B.5](http://www.corestandards.org/Math/Content/HSF/LE/B/5/) |  |  |
| **9-6** | **The Graph of an Exponential Function**[CCSS.MATH.CONTENT.HSF.LE.A.3](http://www.corestandards.org/Math/Content/HSF/LE/A/3/)[CCSS.MATH.CONTENT.HSF.IF.B.4](http://www.corestandards.org/Math/Content/HSF/IF/B/4/)[CCSS.MATH.CONTENT.HSF.IF.C.7](http://www.corestandards.org/Math/Content/HSF/IF/C/7/) |  |  |
| **9-7** | **Exponential Equations**[CCSS.MATH.CONTENT.HSA.CED.A.1](http://www.corestandards.org/Math/Content/HSA/CED/A/1/)[CCSS.MATH.CONTENT.HSA.REI.A.1](http://www.corestandards.org/Math/Content/HSA/REI/A/1/)[CCSS.MATH.CONTENT.HSA.SSE.B.3.C](http://www.corestandards.org/Math/Content/HSA/SSE/B/3/c/) |  |  |
| **9-8**  | **Exponential Growth and Decay**[CCSS.MATH.CONTENT.HSF.LE.A.1.B](http://www.corestandards.org/Math/Content/HSF/LE/A/1/b/)[CCSS.MATH.CONTENT.HSF.LE.A.1.C](http://www.corestandards.org/Math/Content/HSF/LE/A/1/c/) |  |  |

**Unit 10 – Rational and Radical Expressions and Equations**

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| **10-1** | **Simplifying Rational Expressions**[CCSS.MATH.CONTENT.HSA.SSE.B.3](http://www.corestandards.org/Math/Content/HSA/SSE/B/3/)[CCSS.MATH.CONTENT.HSA.APR.D.6](http://www.corestandards.org/Math/Content/HSA/APR/D/6/)[CCSS.MATH.CONTENT.HSA.APR.D.7](http://www.corestandards.org/Math/Content/HSA/APR/D/7/) |  |  |
| **10-2** | **Multiplying and Dividing Rational Expressions**[CCSS.MATH.CONTENT.HSA.SSE.B.3](http://www.corestandards.org/Math/Content/HSA/SSE/B/3/)[CCSS.MATH.CONTENT.HSA.APR.D.6](http://www.corestandards.org/Math/Content/HSA/APR/D/6/)[CCSS.MATH.CONTENT.HSA.APR.D.7](http://www.corestandards.org/Math/Content/HSA/APR/D/7/) |  |  |
| **10-3** | **Adding and Subtracting Rational Expressions**[CCSS.MATH.CONTENT.HSA.SSE.B.3](http://www.corestandards.org/Math/Content/HSA/SSE/B/3/)[CCSS.MATH.CONTENT.HSA.APR.D.6](http://www.corestandards.org/Math/Content/HSA/APR/D/6/)[CCSS.MATH.CONTENT.HSA.APR.D.7](http://www.corestandards.org/Math/Content/HSA/APR/D/7/) |  |  |
| **10-4** | **Solving Rational Expressions**[CCSS.MATH.CONTENT.HSA.APR.D.6](http://www.corestandards.org/Math/Content/HSA/APR/D/6/)[CCSS.MATH.CONTENT.HSA.APR.D.7](http://www.corestandards.org/Math/Content/HSA/APR/D/7/) |  |  |
| **10-5** | **Simplifying Radicals**CCSS.MATH.CONTENT.8.EE.A.2CCSS.MATH.CONTENT.HSN.RN.A.1[CCSS.MATH.CONTENT.HSN.RN.A.2](http://www.corestandards.org/Math/Content/HSN/RN/A/2/) |  |  |
| **10-6** | **Operations with Radical Expressions**CCSS.MATH.CONTENT.8.EE.A.2CCSS.MATH.CONTENT.HSN.RN.A.1CCSS.MATH.CONTENT.HSN.RN.A.2 |  |  |
| **10-7** | **Solving Radical Equations**[CCSS.MATH.CONTENT.HSA.REI.A.1](http://www.corestandards.org/Math/Content/HSA/REI/A/1/)[CCSS.MATH.CONTENT.HSA.REI.A.2](http://www.corestandards.org/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**

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| **11-1** | **Sequences Defined**[CCSS.MATH.CONTENT.HSF.BF.A.1.A](http://www.corestandards.org/Math/Content/HSF/BF/A/1/a/)[CCSS.MATH.CONTENT.HSF.IF.A.3](http://www.corestandards.org/Math/Content/HSF/IF/A/3/) |  |  |
| **11-2** | **Recursive Formula for Sequences**[CCSS.MATH.CONTENT.HSF.BF.A.1.A](http://www.corestandards.org/Math/Content/HSF/BF/A/1/a/)[CCSS.MATH.CONTENT.HSF.IF.A.3](http://www.corestandards.org/Math/Content/HSF/IF/A/3/) |  |  |
| **11-3** | **Arithmetic Sequence**CCSS.MATH.CONTENT.HSF.BF.A.2CCSS.MATH.CONTENT.HSF.LE.A.2[CCSS.MATH.CONTENT.HSF.IF.A.3](http://www.corestandards.org/Math/Content/HSF/IF/A/3/) |  |  |
| **11-4** | **Geometric Sequence**CCSS.MATH.CONTENT.HSF.BF.A.2CCSS.MATH.CONTENT.HSF.LE.A.2[CCSS.MATH.CONTENT.HSF.IF.A.3](http://www.corestandards.org/Math/Content/HSF/IF/A/3/) |  |  |
| **11-5** | **Other Types of Sequences**[CCSS.MATH.CONTENT.HSF.IF.A.3](http://www.corestandards.org/Math/Content/HSF/IF/A/3/) |  |  |
| **11-6** | **The Binomial Theorem**[CCSS.MATH.CONTENT.HSA.APR.C.5](http://www.corestandards.org/Math/Content/HSA/APR/C/5/) |  |  |

**Unit 12 – Statistics and Probability**

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| **12-1** | **Shapes of Distributions**[CCSS.MATH.CONTENT.HSS.ID.A.1](http://www.corestandards.org/Math/Content/HSS/ID/A/1/)[CCSS.MATH.CONTENT.HSS.ID.A.2](http://www.corestandards.org/Math/Content/HSS/ID/A/2/)[CCSS.MATH.CONTENT.HSS.ID.A.3](http://www.corestandards.org/Math/Content/HSS/ID/A/3/) |  |  |
| **12-2** | **The Center of Data Distributions**[CCSS.MATH.CONTENT.HSS.ID.A.1](http://www.corestandards.org/Math/Content/HSS/ID/A/1/)[CCSS.MATH.CONTENT.HSS.ID.A.2](http://www.corestandards.org/Math/Content/HSS/ID/A/2/)[CCSS.MATH.CONTENT.HSS.ID.A.3](http://www.corestandards.org/Math/Content/HSS/ID/A/3/) |  |  |
| **12-3** | **Measure of Variability for Symmetrical and Skewed Distribution**[CCSS.MATH.CONTENT.HSS.ID.A.1](http://www.corestandards.org/Math/Content/HSS/ID/A/1/)[CCSS.MATH.CONTENT.HSS.ID.A.2](http://www.corestandards.org/Math/Content/HSS/ID/A/2/) |  |  |
| **12-4** | **Categorical Data on Two Variables**[CCSS.MATH.CONTENT.HSS.ID.B.5](http://www.corestandards.org/Math/Content/HSS/ID/B/5/) |  |  |
| **12-5** | **Numerical Data on Two Variables**[CCSS.MATH.CONTENT.HSS.ID.B.6](http://www.corestandards.org/Math/Content/HSS/ID/B/6/)[CCSS.MATH.CONTENT.HSS.ID.B.6.A](http://www.corestandards.org/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](http://www.corestandards.org/Math/Content/HSS/CP/B/6/)[CCSS.MATH.CONTENT.HSS.CP.B.7](http://www.corestandards.org/Math/Content/HSS/CP/B/7/)[CCSS.MATH.CONTENT.HSS.CP.B.8](http://www.corestandards.org/Math/Content/HSS/CP/B/8/)[CCSS.MATH.CONTENT.HSS.CP.B.9](http://www.corestandards.org/Math/Content/HSS/CP/B/9/) |  |  |
| **12-8** | **Probability of Independent Events**[CCSS.MATH.CONTENT.HSS.CP.A.2](http://www.corestandards.org/Math/Content/HSS/CP/A/2/) |  |  |
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