**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.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](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.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**

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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.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](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.A  CCSS.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.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](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.2  CCSS.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.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](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.2  CCSS.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.2  CCSS.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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