**Curriculum Map**

**Unit 0 - Preparing for Pre-Calculus**

**0-1 Sets**

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

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

**0-2 Operations with Complex Numbers**

CCSS.MATH.CONTENT.HSN.CN.A.1

CCSS.MATH.CONTENT.HSN.CN.A.2

CCSS.MATH.CONTENT.HSN.CN.A.3

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

CCSS.MATH.CONTENT.HSN.CN.C.8

CCSS.MATH.CONTENT.HSN.CN.C.9

**0-3 Quadratic Functions and Equations**

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

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

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

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

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

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

CCSS.MATH.CONTENT.HSN.CN.C.7

**0-4 nth Roots and Real Exponents**

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

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

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

**0-5 Systems of Linear Equations and Inequalities**

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

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

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

CCSS.MATH.CONTENT.HSA.REI.C.8

CCSS.MATH.CONTENT.HSA.REI.C.9

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

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

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

**0-6 Matrix Operations**

CCSS.MATH.CONTENT.HSN.VM.C.8

CCSS.MATH.CONTENT.HSA.REI.C.8

CCSS.MATH.CONTENT.HSA.REI.C.9

**0-7 Probability with Permutations and Combinations**

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

**0-8 Statistics**

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

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

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

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

**Unit 1 - Functions and Relations**

* 1. **Functions**

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

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

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

**1-2 Analyzing Graphs of Functions and Relations**

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

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

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

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

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

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

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

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

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

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

**1-3 Continuity, End Behavior, and Limits**

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

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

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

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

**1-4 Extrema and Average Rates of Change**

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

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

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

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

**1-5 Parent Functions and Transformations**

CCSS.MATH.CONTENT.HSF.BF.B.3

**1-6 Function Operations and Composition of Functions**

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

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

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

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

CCSS.MATH.CONTENT.HSF.BF.B.3

**1-7 Inverse Relations and Functions**

CCSS.MATH.CONTENT.HSF.BF.B.4

CCSS.MATH.CONTENT.HSF.BF.B.4.A

CCSS.MATH.CONTENT.HSF.BF.B.4.B

CCSS.MATH.CONTENT.HSF.BF.B.4.C

CCSS.MATH.CONTENT.HSF.BF.B.4.D

CCSS.MATH.CONTENT.HSF.BF.B.5

**Unit 2 - Power, Polynomial, and Rational Functions**

**2-1 Power and Radical Functions**

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

**2-2 Polynomial Functions**

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

**2-3 The Remainder and Factor Theorems**

CCSS.MATH.CONTENT.HSA.APR.B.2

**2-4 Zeros of Polynomial Functions**

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

CCSS.MATH.CONTENT.HSA.APR.B.3

**2-5 Rational Functions**

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

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

**2-6 Nonlinear Inequalities**

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

**Unit 3 - Exponential and Logarithmic Functions**

**3-1 Exponential Functions**

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

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

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.A.3

CCSS.MATH.CONTENT.HSF.LE.A.4

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

**3-2 Logarithmic Functions**

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

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

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

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

CCSS.MATH.CONTENT.HSF.BF.B.5

**3-3 Properties of Logarithms**

CCSS.MATH.CONTENT.HSF.BF.B.5

CCSS.MATH.CONTENT.HSF.LE.A.4

**3-4 Exponential and Logarithmic Equations**

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

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

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

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

**3-5 Modeling with Nonlinear Regression**

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

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

CCSS.MATH.CONTENT.HSF.LE.A.4

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

**Unit 4 - Trigonometric Functions**

**4-1 Right Triangle Trigonometry**

CCSS.MATH.CONTENT.HSF.TF.A.3

CCSS.MATH.CONTENT.HSF.TF.B.5

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

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

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

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

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

**4-2 Degrees and Radians**

CCSS.MATH.CONTENT.HSF.TF.A.1

CCSS.MATH.CONTENT.HSF.TF.A.2

**4-3 Trigonometric Functions on the Unit Circle**

CCSS.MATH.CONTENT.HSF.TF.A.1

CCSS.MATH.CONTENT.HSF.TF.A.2

CCSS.MATH.CONTENT.HSF.TF.A.3

CCSS.MATH.CONTENT.HSF.TF.A.4

**4-4 Graphing Sine and Cosine Functions**

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

CCSS.MATH.CONTENT.HSF.TF.B.5

CCSS.MATH.CONTENT.HSF.TF.B.6

CCSS.MATH.CONTENT.HSF.TF.B.7

**4-5 Graphing Other Trigonometric Functions**

CCSS.MATH.CONTENT.HSF.TF.B.5

CCSS.MATH.CONTENT.HSF.TF.B.6

CCSS.MATH.CONTENT.HSF.TF.B.7

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

**4-6 Inverse Trigonometric Functions**

CCSS.MATH.CONTENT.HSF.TF.B.6

CCSS.MATH.CONTENT.HSF.TF.B.7

**4-7 The Law of Sines and the Law of Cosines**

CCSS.MATH.CONTENT.HSG.SRT.D.10

CCSS.MATH.CONTENT.HSG.SRT.D.11

**Unit 5 - Trigonometric Identities and Equations**

**5-1 Trigonometric Identities**

CCSS.MATH.CONTENT.HSF.TF.C.8

CCSS.MATH.CONTENT.HSF.TF.C.9

**5-2 Verifying Trigonometric Identities**

CCSS.MATH.CONTENT.HSF.TF.C.8

CCSS.MATH.CONTENT.HSF.TF.C.9

**5-3 Solving Trigonometric Equations Exercises**

CCSS.MATH.CONTENT.HSF.TF.B.7

**5-4 Sum and Difference Formulas**

CCSS.MATH.CONTENT.HSF.TF.C.9

**5-5 Multiple-Angle and Product-to-Sum Identities**

CCSS.MATH.CONTENT.HSF.TF.C.9

**Unit 6 - Systems of Equations and Matrices**

**6-1 Multivariable Linear Systems and Row Operations**

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

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

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

CCSS.MATH.CONTENT.HSA.REI.C.8

CCSS.MATH.CONTENT.HSA.REI.C.9

**6-2 Matrix Multiplication, Inverses, and Determinants**

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

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

CCSS.MATH.CONTENT.HSN.VM.C.8

CCSS.MATH.CONTENT.HSN.VM.C.9

CCSS.MATH.CONTENT.HSN.VM.C.10

CCSS.MATH.CONTENT.HSN.VM.C.11

CCSS.MATH.CONTENT.HSN.VM.C.12

**6-3 Solving Linear Systems Using Inverses and Cramer's Rule**

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

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

**6-4 Partial Fractions**

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

CCSS.MATH.PRACTICE.MP1

CCSS.MATH.PRACTICE.MP5 CCSS.MATH.PRACTICE.MP8

**6-5 Linear Optimization**

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

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

**Unit 7 - Conic Sections and Parametric Equations**

**7-1 Parabolas**

CCSS.MATH.CONTENT.HSG.GPE.A.2

**7-2 Ellipses and Circles**

CCSS.MATH.CONTENT.HSG.GPE.A.1

CCSS.MATH.CONTENT.HSG.GPE.A.3

**7-3 Hyperbolas**

CCSS.MATH.CONTENT.HSG.GPE.A.3

**7-4 Rotations of Conic Sections**

CCSS.MATH.CONTENT.HSG.GPE.A.1

CCSS.MATH.CONTENT.HSG.GPE.A.2

CCSS.MATH.CONTENT.HSG.GPE.A.3

**7-5 Parametric Equations**

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

CCSS.MATH.PRACTICE.MP1

CCSS.MATH.PRACTICE.MP2

CCSS.MATH.PRACTICE.MP5

**Unit 8 – Vectors**

**8-1 Introduction to Vectors**

CCSS.MATH.CONTENT.HSN.VM.A.1

CCSS.MATH.CONTENT.HSN.VM.A.2

CCSS.MATH.CONTENT.HSN.VM.A.3

CCSS.MATH.CONTENT.HSN.VM.B.4

CCSS.MATH.CONTENT.HSN.VM.B.4.A

CCSS.MATH.CONTENT.HSN.VM.B.4.B

CCSS.MATH.CONTENT.HSN.VM.B.4.C

CCSS.MATH.CONTENT.HSN.VM.B.5

CCSS.MATH.CONTENT.HSN.VM.B.5.A

CCSS.MATH.CONTENT.HSN.VM.B.5.B

**8-2 Vectors in the Coordinate Plane**

CCSS.MATH.CONTENT.HSN.VM.A.1

CCSS.MATH.CONTENT.HSN.VM.A.2

CCSS.MATH.CONTENT.HSN.VM.A.3

CCSS.MATH.CONTENT.HSN.VM.B.4.A

CCSS.MATH.CONTENT.HSN.VM.B.4.C

CCSS.MATH.CONTENT.HSN.VM.B.5

CCSS.MATH.CONTENT.HSN.VM.B.5.A

CCSS.MATH.CONTENT.HSN.VM.B.5.B

**8-3 Dot Products and Vector Projections**

CCSS.MATH.CONTENT.HSN.VM.B.4

CCSS.MATH.CONTENT.HSN.VM.B.4.A

CCSS.MATH.CONTENT.HSN.VM.B.4.B

CCSS.MATH.CONTENT.HSN.VM.B.4.C

CCSS.MATH.CONTENT.HSN.VM.B.5

CCSS.MATH.CONTENT.HSN.VM.B.5.A

CCSS.MATH.CONTENT.HSN.VM.B.5.B

**8-4 Vectors in Three-Dimensional Space**

CCSS.MATH.CONTENT.HSG.GMD.A.1

CCSS.MATH.CONTENT.HSG.GMD.A.2

CCSS.MATH.CONTENT.HSG.GMD.A.3

CCSS.MATH.CONTENT.HSG.GMD.B.4

**8-5 Dot and Cross Products of Vectors in Space**

CCSS.MATH.CONTENT.HSN.VM.A.1

CCSS.MATH.PRACTICE.MP1

CCSS.MATH.PRACTICE.MP5

**Unit 9 - Polar Coordinates and Complex Numbers**

**9-1 Polar Coordinates**

CCSS.MATH.CONTENT.HSN.CN.B.4

CCSS.MATH.CONTENT.HSN.CN.B.5

CCSS.MATH.CONTENT.HSN.CN.B.6

CCSS.MATH.PRACTICE.MP1

CCSS.MATH.PRACTICE.MP2

CCSS.MATH.PRACTICE.MP6

CCSS.MATH.PRACTICE.MP7

CCSS.MATH.PRACTICE.MP8

**9-2 Graphs of Polar Equations**

CCSS.MATH.PRACTICE.MP1

CCSS.MATH.PRACTICE.MP3

CCSS.MATH.PRACTICE.MP5

**9-3 Polar and Rectangular Forms of Equations**

CCSS.MATH.CONTENT.HSN.CN.B.4

CCSS.MATH.PRACTICE.MP1

**9-4 Polar Forms of Conic Sections**

CCSS.MATH.PRACTICE.MP1

CCSS.MATH.PRACTICE.MP5

CCSS.MATH.PRACTICE.MP7

**9-5 Complex Numbers and DeMoivre's Theorem**

CCSS.MATH.CONTENT.HSN.CN.B.4

CCSS.MATH.CONTENT.HSN.CN.B.5

**Unit 10 - Sequences and Series**

**10-1 Sequences, Series, and Sigma Notation**

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

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

**10-2 Arithmetic Sequences and Series**

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

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

CCSS.MATH.PRACTICE.MP8

**10-3 Geometric Sequences and Series**

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

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

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

CCSS.MATH.PRACTICE.MP8

**10-4 Mathematical Induction**

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

**10-5 The Binomial Theorems**

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

**10-6 Functions as Infinite Series**

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

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

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

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

**Unit 11 - Inferential Statistics**

**11-1 Descriptive Statistics**

CCSS.MATH.CONTENT.HSS.IC.A.1

CCSS.MATH.CONTENT.HSS.IC.A.2

**11-2 Probability Distributions**

CCSS.MATH.CONTENT.HSS.MD.A.1

CCSS.MATH.CONTENT.HSS.MD.A.2

CCSS.MATH.CONTENT.HSS.MD.A.3

CCSS.MATH.CONTENT.HSS.MD.A.4

**11-3 The Normal Distribution**

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

**11-4 The Central Limit Theorem**

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

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

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

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

CCSS.MATH.PRACTICE.MP1

CCSS.MATH.PRACTICE.MP6

CCSS.MATH.PRACTICE.MP8

**11-5 Confidence Intervals**

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

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

CCSS.MATH.CONTENT.HSS.IC.B.5

CCSS.MATH.CONTENT.HSS.IC.B.6

**11-6 Hypothesis Testing**

CCSS.MATH.CONTENT.HSS.IC.B.6

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

**11-7 Correlation and Linear Regression**

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

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

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

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

**Unit 12 - Limits and Derivatives**

**12-1 Estimating Limits Graphically**

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

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

**12-2 Evaluating Limits Algebraically**

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

**12-3 Tangent Lines and Velocity**

CCSS.MATH.CONTENT.HSG.C.A.4

**12-4 Derivatives**

CCSS.MATH.CONTENT.HSG.C.B.5

**12-5 Area Under a Curve and Integrations**

CCSS.MATH.CONTENT.HSG.C.B.5

**12-6 The Fundamental Theorem of Calculus**

CCSS.MATH.PRACTICE.MP1

CCSS.MATH.PRACTICE.MP3

CCSS.MATH.PRACTICE.MP5

CCSS.MATH.PRACTICE.MP7