

1st Six Weeks

Date Taught	TEKS	Content	Additional Content
26 – 30 Aug	<ul style="list-style-type: none"> • A2.2A • A2.2D • A2.7I 	<ul style="list-style-type: none"> • Functions 	<ul style="list-style-type: none"> • Relations • Functions • Domain • Range • Intercepts • Operations
3 – 6 Sep	<ul style="list-style-type: none"> • A2.2A • A2.2D • A2.7I 	<ul style="list-style-type: none"> • Functions 	<ul style="list-style-type: none"> • Reflections • Even and Odd (Symmetry) • Maximum and Minimum • Transformations <p>Note: 2 Sep – Holiday</p>
9 – 13 Sep	<ul style="list-style-type: none"> • A2.2A • A2.4C • A2.5A • A2.6A • A2.6C • A2.6G • A2.7I 	<ul style="list-style-type: none"> • Parent Functions 	<ul style="list-style-type: none"> • Graph quadratic functions, including transformations • Graph square root functions, including transformations • Graph absolute value functions, including transformations • Graph reciprocal functions, including transformations • Graph cubic functions, including transformations • Graph cube root functions, including transformations • Graph logarithmic functions, including transformations • Graph exponential functions, including transformations • Graph linear functions, including transformations

<p>16 – 20 Sep</p>	<ul style="list-style-type: none"> • A2.2A • A2.4C • A2.5A • A2.6A • A2.6C • A2.6G • A2.7I • A2.4E • A2.8A • A2.8B • A2.8C 	<ul style="list-style-type: none"> • Parent Functions • Models 	<ul style="list-style-type: none"> • Graph quadratic functions, including transformations • Graph square root functions, including transformations • Graph absolute value functions, including transformations • Graph reciprocal functions, including transformations • Graph cubic functions, including transformations • Graph cube root functions, including transformations • Graph logarithmic functions, including transformations • Graph exponential functions, including transformations • Graph linear functions, including transformations • Using a Calculator • Regression • Graphing Equations of Best Fit
<p>23 – 27 Sep</p>	<ul style="list-style-type: none"> • A2.6D • A2.6E • A2.6F 	<ul style="list-style-type: none"> • Inequalities 	<ul style="list-style-type: none"> • Linear Equations & Inequalities • Compound Inequalities • Linear Word Problems • Absolute Value Inequalities
<p>30 Sep – 4 Oct</p>	<ul style="list-style-type: none"> • A2.3E • A2.3F • A2.3G • A2.4H 	<ul style="list-style-type: none"> • Inequalities 	<ul style="list-style-type: none"> • Graphing Linear Inequalities • Solving Quadratic Inequalities • Systems of Inequalities

2nd Six Weeks

Date Taught	TEKS	Content	Additional Content
7 – 11 Oct	<ul style="list-style-type: none"> • A2.2B • A2.2C • A2.2D 	<ul style="list-style-type: none"> • Inverses 	<ul style="list-style-type: none"> • Identify inverse functions • Write the equation for the inverse of a function • Graph a function and its inverse on the same set of axes • Determine if two functions are inverses of each other
15 – 18 Oct	<ul style="list-style-type: none"> • A2.2B • A2.2C • A2.2D • A2.5C 	<ul style="list-style-type: none"> • Exponential and Logarithmic Functions 	<ul style="list-style-type: none"> • Identify inverse functions • Write the equation for the inverse of a function • Graph a function and its inverse on the same set of axes • Determine if two functions are inverses of each other • Note: 14 Oct – Holiday
21 – 25 Oct	<ul style="list-style-type: none"> • A2.2D 	<ul style="list-style-type: none"> • Composites 	<ul style="list-style-type: none"> • Composites and Inverses • Linear Basics • Real World Functions
28 Oct – 1 Nov	<ul style="list-style-type: none"> • A2.7B • A2.7C • A2.7D 	<ul style="list-style-type: none"> • Polynomials 	<ul style="list-style-type: none"> • Power Function • Add, Subtract, Multiply • Writing Polynomials • Long Division Polynomials • Analyzing Polynomials

4 – 8 Nov	<ul style="list-style-type: none">• A2.6B• A2.7B• A2.7C• A2.7D• A2.7E	<ul style="list-style-type: none">• Polynomials	<ul style="list-style-type: none">• Synthetic Division• Remainder Theorem• GCD• Sum or Difference of Squares & Cubes• Grouping• Box or X Method • Note: 7 Nov – Early Release / Parent Conferences
11 – 15 Nov	<ul style="list-style-type: none">• A2.7B• A2.7C• A2.7D	<ul style="list-style-type: none">• Polynomials	<ul style="list-style-type: none">• Factoring and Solving Polynomials• $a = 1$• $a > 1$• Quadratic Formula

3rd Six Weeks

Date Taught	TEKS	Content	Additional Content
18 – 22 Nov	<ul style="list-style-type: none"> • A2.3A • A2.3B • A2.3C • A2.3D 	<ul style="list-style-type: none"> • System of Equations (2 x 2) 	<ul style="list-style-type: none"> • Solving System of Equations Graphically • Solving System of Equations Algebraically • Solving System Word Problems • Note: 25 – 29 Nov Thanksgiving Break
2 – 6 Dec	<ul style="list-style-type: none"> • A2.3A • A2.3B • A2.3C • A2.3D 	<ul style="list-style-type: none"> • System of Equations (3 x 3 and Nonlinear) 	<ul style="list-style-type: none"> • Solving System of Three Equations – Substitution • Solving System of Three Equations – Elimination • Solving Nonlinear Systems
9 – 13 Dec	<ul style="list-style-type: none"> • A2.3B 	<ul style="list-style-type: none"> • System of Equations (3 x 3 and Nonlinear) 	<ul style="list-style-type: none"> • Matrix Operations • Matrix Multiplication • Determinants • Cramer’s Rule
16 – 20 Dec	<ul style="list-style-type: none"> • A2.3B 	<ul style="list-style-type: none"> • System of Equations (3 x 3 and Nonlinear) 	<ul style="list-style-type: none"> • Cramer’s Rule • Gaussian Elimination • Gauss Jordan Elimination • Note: 23 Dec – 3 Jan Christmas and New Year’s Break
6 – 10 Jan	<ul style="list-style-type: none"> • A2.3B 	<ul style="list-style-type: none"> • System of Equations (3 x 3 and Nonlinear) 	<ul style="list-style-type: none"> • Finding Inverses of Matrices • Using Inverses to Solve System of Equations
13 – 17 Jan	<ul style="list-style-type: none"> • Midterms 	<ul style="list-style-type: none"> • Midterms 	<ul style="list-style-type: none"> • Midterms

4th Six Weeks

Date Taught	TEKS	Content	Additional Content
21 – 24 Jan	<ul style="list-style-type: none"> • A2.6H • A2.6I • A2.6J • A2.6K • A2.6L 	<ul style="list-style-type: none"> • Complex Fractions and Rational Equations 	<ul style="list-style-type: none"> • Simplifying Complex Fractions • Solving Rational Equations • Direct and Inverse Variation • Note: 20 Jan – Treasure Hunt
27 – 31 Jan	<ul style="list-style-type: none"> • A2.4F • A2.4G • A2.7F • A2.7G • A2.7H 	<ul style="list-style-type: none"> • Radicals 	<ul style="list-style-type: none"> • Simplifying Radicals • Rational Exponents • Equations with Rational Exponents • Squaring Expressions
3 – 7 Feb	<ul style="list-style-type: none"> • A2.4F • A2.4G • A2.7F • A2.7G • A2.7H 	<ul style="list-style-type: none"> • Radicals 	<ul style="list-style-type: none"> • Squaring Expressions • Solving Equations with One Radical • Solving Equations with More Than One Radical
10 – 14 Feb	<ul style="list-style-type: none"> • A2.5D 	<ul style="list-style-type: none"> • Exponential Equations 	<ul style="list-style-type: none"> • Law of Exponents • Exponential Equations • Modeling Exponential Growth and Decay • Compound Interest
18 – 21 Feb	<ul style="list-style-type: none"> • A2.5B • A2.5C • A2.5D • A2.5E 	<ul style="list-style-type: none"> • Logarithmic Equations 	<ul style="list-style-type: none"> • Definition of Logarithm • Laws of Logarithms • Solving Logarithmic Equations • Using Laws of Logs • Note: 17 Feb – Holiday
24 – 28 Feb	<ul style="list-style-type: none"> • A2.5B • A2.5C • A2.5D • A2.5E 	<ul style="list-style-type: none"> • Exponential and Logarithm Equations 	<ul style="list-style-type: none"> • Solving All Exponential Equations • Solving All Logarithm Equations • Compound Interest • Half-Life Decay

5th Six Weeks

Date Taught	TEKS	Content	Additional Content
2 – 6 Mar	<ul style="list-style-type: none"> • P.5A • P.5B • P.5C • P.5D • P.5E 	<ul style="list-style-type: none"> • Sequences & Series 	<ul style="list-style-type: none"> • Sequences • Arithmetic and Geometric Sequences • Series and Sigma Notation
9 – 13 Mar	<ul style="list-style-type: none"> • A2.7A 	<ul style="list-style-type: none"> • Complex Numbers 	<ul style="list-style-type: none"> • Definition • Add • Subtract • Multiply • Divide • Conjugate • Note: 16 – 20 Mar Spring Break
23 – 27 Mar	<ul style="list-style-type: none"> • A2.7A 	<ul style="list-style-type: none"> • Complex Numbers 	<ul style="list-style-type: none"> • Definition • Add • Subtract • Multiply • Divide • Conjugate
30 Mar – 3 Apr	<ul style="list-style-type: none"> • A2.4A • A2.4B • A2.4D • P.3F • P.3G • P.3H • P.3.I 	<ul style="list-style-type: none"> • Conic Sections 	<ul style="list-style-type: none"> • Standard Form • Circles • Parabolas • Ellipses • Hyperbolas

6 – 10 Apr	<ul style="list-style-type: none">• A2.4A• A2.4B• A2.4D• P.3F• P.3G• P.3H• P.3.I	<ul style="list-style-type: none">• Conic Sections	<ul style="list-style-type: none">• General Form• Circles• Parabolas• Ellipses• Hyperbolas
14 – 17 Apr	<ul style="list-style-type: none">• P.4A• P.4B• P.4C• P.4D• P.4E• P.4F	<ul style="list-style-type: none">• Introduction to Trigonometry	<ul style="list-style-type: none">• Measurements of Angles• Special Angles• Types of Angles• Define the Six Trigonometric Functions • Note: 13 Apr – Holiday

6th Six Weeks

Date Taught	TEKS	Content	Additional Content
20 – 24 Apr	<ul style="list-style-type: none"> • P.4A • P.4B • P.4C • P.4D • P.4E • P.4F 	<ul style="list-style-type: none"> • The Six Trigonometric Functions 	<ul style="list-style-type: none"> • Sign Changes • By Quadrant • Special Right Triangles • Reference Angles
27 Apr – 1 May	<ul style="list-style-type: none"> • P.4A • P.4B • P.4C • P.4D • P.4E • P.4F 	<ul style="list-style-type: none"> • The Six Trigonometric Functions 	<ul style="list-style-type: none"> • Using Reference Angles to Evaluate Trig Functions • Simple Trig Equations • Using a calculator to solve equations – degrees and radians
4 – 8 May	<ul style="list-style-type: none"> • P.4A • P.4B • P.4C • P.4D • P.4E • P.4F 	<ul style="list-style-type: none"> • Introduction to the graphs of Sine and Cosine 	<ul style="list-style-type: none"> • Sine and Cosine Curves • Amplitude • Reflection • Periods • Vertical Shifts • Horizontal Shifts
11 – 15 May	<ul style="list-style-type: none"> • P.4A • P.4B • P.4C • P.4D • P.4E • P.4F 	<ul style="list-style-type: none"> • Graphs of Sine and Cosine 	<ul style="list-style-type: none"> • Equations from Graphs • Equations from Graphs with Vertical and/or Horizontal Shifts • Rewriting Sine as Cosine and vice versa
18 – 22 May	<ul style="list-style-type: none"> • P.4G • P.4H 	<ul style="list-style-type: none"> • Law of Sines and Cosines 	<ul style="list-style-type: none"> • Law of Sines • Law of Cosines • Note: 25 May – Holiday
26 – 29 May	<ul style="list-style-type: none"> • Finals 	<ul style="list-style-type: none"> • Finals 	<ul style="list-style-type: none"> • Finals