

Essential Resources		District Resources to Teach 100% of the TEKS located in the NBISD ECourse Resources Link to TEKS: https://tea.texas.gov/curriculum/teks/						
Spiraled TEKS		<p>Process Skills Embedded in All Lessons:(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:</p> <p>(A) apply mathematics to problems arising in everyday life, society, and the workplace; (B) use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution; (C) select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems;</p> <p>(D) communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate;</p> <p>(E) create and use representations to organize, record, and communicate mathematical ideas; (F) analyze mathematical relationships to connect and communicate mathematical ideas; and (G) display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication.</p>						
Timeline		1st Quarter Aug 23 - Oct 15, 2021 38 Instructional Days			2nd Quarter Oct 19 - Dec 17, 2021 40 Days			
Unit		Unit 1 Algebra and Linear Review		Unit 2 Functions and their Graphs		Unit 3 Polynomial and Rational Functions		Unit 4 Exponential and Logarithmic Functions
Big Idea	Current Grade	Factoring polynomials, simplifying algebraic expressions, solve equations, write linear functions, find the distance and midpoint of a line segment		Identify functions and properties of functions including domain, range, even, odd, increasing, decreasing, maximum and minimum. Perform operations of functions. Analyze the graphs of functions. Perform Rigid and non-rigid transformations. Find combinations of functions, composite functions and inverse functions.		Identify polynomial and rational functions and their properties. Graph polynomial and rational functions and analyze important information such as domain, range and asymptotes. Use multiple methods to find the real and complex solutions of polynomials. Solve polynomial and rational inequalities.		Recognize, evaluate and solve exponential and logarithmic functions, evaluate, rewrite, expand, and condense logarithms. Solve exponential and logarithmic equations. Use exponential growth, exponential decay and logarithmic models
	TEKS	P1.A, P1.B, P1.C, P1.D P5.J		"Spiraled: P1.C, P1.D, P2.F, P2.G, P2.I, P2.J, P2.N, P5.J New: P1.G, P2.K, P5.K, P5.L"		Spiraled: P1.C, P1.D, P2.F, P2.G, P2.I, P2.J, P2.N, P5.J New: P1.G, P2.K, P5.K, P5.L		Spiraled: P1.A, P1.C, P1.D, P1.E, P1.G, P2.A, P2.F, P2.G, P2.I, P2.J, P2.N New: P5.G, P5.H, P5.I
Timeline		3rd Quarter Jan 4 - March 11, 2022 48 Instructional Days			4th Quarter March 21 - May 26, 2022 48 Instructional Days			
Unit		Unit 5 Trigonometry Functions		Unit 6 Analytic Trig		Unit 6 continued	Unit 8 Polar, Parametric, and Vectors	Unit 9 Introduction to Calculus
Big Idea	Current Grade	Use Law of Sines and Cosines to solve right triangles and find the area of a triangle. Use trig identities and sum/difference and multiangles formulas to solve trig equations.		Fundamental Identities, trig proofs, composite Identities		Law of Sines Law of Cosines Area	Convert rectangular equations and points to polar and parametric and vise-versa. Graph and write polar and parametric equations.	The derivative, the integral sequences and Series Conic Sections
	TEKS	Spiraled: P1.D, P2.I, P2.P New: P4.G, P4.H, P5.M, P5.N		Spiraled: P1.D, P2.I, P2.P New: P4.G, P4.H, P5.M, P5.N		Spiraled: P1.D, P2.I, P2.P New: P4.G, P4.H, P5.M, P5.N	Spiraled: P1.D, P2.P New: P3.A, P3.B, P3.C, P3.D, P3.E	TEKS (P.3A, P.3B, P.3C, P.3D, P.3E, P.3F, P.3G, P.3H, P.3I, P.4I, P.4J, P.4K, P.5A, P.5B, P.5C, P.5D, P.5E, P.5F)