

**Tech Algebra III
District 2853**

Month	Content	Performance Standards Addressed Grades 9-11 Grades 11-12	Skills for Student Achievement	Assessment
September	Trigonometry	Algebra - Benchmark #11 Mathematical Reasoning - Benchmark #3 Computation & Operation - Benchmarks #1, #2, #5 Geometry - Benchmark #4	<ul style="list-style-type: none"> Understand and use terms leg, hypotenuse, special triangles, sine, arc cosine, and arc tangent to solve problems 	Test/Quiz Daily Solve Real-World Problems Using Trigonometry
October	Trig with Real Numbers	Computation & Operation - Benchmark #3	Geometry - Benchmarks #3, #4, #5, #6, #8	<ul style="list-style-type: none"> Understand and use graphs of functions to solve problems by using $y = C + A \sin B(-D)$ and amplitude, wave length, center, period and frequency Test/Quiz Daily
November	Factoring	Algebra - Benchmarks #1, #4	Algebra - Benchmarks #3, #10	<ul style="list-style-type: none"> Solve problems that use Algebraic manipulation: FOIL squaring binomials, multiplying sum and difference binomials, and factor above Test/Quiz Daily
December	Patterns and Functions	Geometry - Benchmark #5 Algebra - Benchmarks #5, #9	<ul style="list-style-type: none"> Use patterns to solve problems Use patterns to determine relationships and functions Represent relations using: graphs, tables, ordered pairs equations and words Graph equations Understand and use domain and range 	Test/Quiz Daily Understand Relationships of Functions
January	Quadratic Functions	Algebra - Benchmark #8	<ul style="list-style-type: none"> Solve quadratics using graphing, factoring, and the quadratic formula 	Test/Quiz Daily
February	Systems of Equations	Algebra - Benchmarks #11, #12	<ul style="list-style-type: none"> Solve systems of equations using: graphing, substitution, subtraction, determinants, etc. 	Use systems of equations to solve problems
March	Inequalities	Algebra - Benchmarks #2, #4, #7	<ul style="list-style-type: none"> Relate numbers using $<$, $>$, $=$, etc. Use number line to solve problems Determine absolute value Graph linear inequalities 	Test/Quiz Daily
April	Trigonometry		<ul style="list-style-type: none"> Apply Geometry and Trigonometry to solve problems involving irregularly shaped figures 	Use Trigonometry to solve Problems

May	Geometry	Geometry - Benchmark #6 intro. only		Use transformations scale, translation, and rotation to solve problems	Use Geometry To solve Problems
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