Tech Algebra II District 2853

Month	Content	Performance Standards	Skills for Student Achievement	Assessment					
		Addressed							
		Grades 9-11							
		Grades 11-12							

September	Powers And Roots	Algebra - Benchmarks #6, #11 Mathematical Reasoning - Benchmark #3 Computation & Operation	 Expand powers Evaluate roots Convert to and from fractional exponents Solve problems using powers, roots, and fractional exponents 	Test/Quiz Formative Daily Know and
		- Benchmarks #1, #2 Patterns and Functions - Benchmarks #2, #4		use Properties of Exponents
	Applications of Geometry	Patterns and Functions - Benchmark #2 Algebra - Benchmark #4 Geometry - Benchmark #3	 Solve problems using formulas Rearrange and substitute into formulas to solve Use Pythagorean Theorem to solve problems 	Test/Quiz Formative Daily Use Pythagorean Theorem to solve Problems
November	Linear Functions	Patterns and Functions - Benchmarks #1, #3 Algebra - Benchmark #3	 Solve problems using Linear Equations Find slope and intercept Use slope intercept form 	Test/Quiz Formative Daily
December	Linear Functions	Patterns and Functions - Benchmark #1 Algebra - Benchmarks #3, #7	 Use Cartesian coordinate plane Graph y = m x+b; y = some number; x + some number; x = o, y = o Know the term origin 	Test/Quiz Formative Daily
January and February	Function Models	Patterns and Functions - Benchmarks #1, #2, #3, #4	 Solve problems involving non-linear equations Understand and use the following types of equations: quadratic, exponential, inverse, parabola, hyperbola, circle, ellipse, radical 	Test/Quiz Formative Daily
February and March	Statistics	Data and Statistics - Benchmark #7	 Use coloring theory to color maps by incorporating vertex-edge graphs to color with least cost Solve problems using Hamiltonian and Eulerian paths, circuits, and walks Use alternative election processes to determine the winner Solve problems about fair division of property 	Test/Quiz Formative Daily Model Real World Problems with Functions

April	Statistics	Data and Statistics - Benchmarks #1, #2, #3, #4	Statistics - Benchmark #1	· · ·	Understand, determine and use, mean, median and mode Discern the meaningful use of each Construct histograms Understand and solve problems using frequency, range, standard deviation and normal curves Use curve fitting to solve problems	Test/Quiz Formative Daily Use central tendency to make inferences
Мау	Probability	Probability - Benchmark #1, #2, #4, #5, #6		-	Solve probability problems using counting, permutations, and combinations Understand the influence of replacement and non-replacement	Test/Quiz Formative Daily