



**** Algebra II w/statistics Semester II ****

Timeline	Unit/theme	Standard	Student Focused Objective	Resources/ Suggested Activities
		*** INSERT WHOLE STANDARD**	** make sure to use student friendly language**	** LIST ALL RESOURCES INCLUDING BOOKS, SITES, AND PLATFORMS
5 wks		12. Solve simple equations involving exponential, radical, logarithmic, and trigonometric functions using inverse functions. 8. Explain why extraneous solutions to an equation may arise and how to check to be sure that a candidate solution satisfies an equation. Extend to radical equations.	<ul style="list-style-type: none"> • I can simplify radicals with various index values. • I can add, subtract, multiply and divide radical expressions. • I can solve radical equations. 	Misc. web sites and various worksheets.
7 wks		1. Identify numbers written in the form $a + bi$, where a and b are real numbers and $i^2 = -1$, as complex numbers. a. Add, subtract, and multiply complex numbers using the	<ul style="list-style-type: none"> • I can solve quadratics by square roots. • I can identify the parts of complex numbers. • I can add, subtract, multiply and divide complex numbers. 	Misc. web sites and various worksheets.



		commutative, associative, and distributive properties. 11. Solve quadratic equations with real coefficients that have complex solutions.	<ul style="list-style-type: none"> • I can evaluate the square root negative numbers. • I can solve equality of complex numbers • I can evaluate powers of i 	
2 wks		11. Solve quadratic equations with real coefficients that have complex solutions.	<ul style="list-style-type: none"> • I can resolve complex solutions and zeros. 	Misc. web sites and various worksheets.
1 week		3. Represent complex numbers on the complex plane in rectangular and polar form (including real and imaginary numbers), and explain why the rectangular and polar forms of a given complex number represent the same number. (PreCal)	<ul style="list-style-type: none"> • I can graph a complex number on the rectangular complex plane. 	Misc. web sites and various worksheets.
2 wks		Trig Review	<ul style="list-style-type: none"> • I can use the pythagorean theorem to help determine the 6 basic trig ratios • I can use 6 basic trig ratios to find missing parts of a right triangle. 	Misc. web sites and various worksheets.



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1 week		Probability Statistics	<ul style="list-style-type: none">• I can determine the likelihood of a single event occurring.	Misc. web sites and various worksheets.