Place a checkmark or the date when items are completed. For tests, record the score if preferred.

	Lesson	Explore	Practice 1	Mastery Check	Practice 2	Targeted Review	Lesson Test
11	$d^{ m th}$ -degree Radical Expressions under the Set of Reals						
12	Radical Expressions with More Than One Operation						
13	Solving Radical Equations						
14	Solving and Graphing Radical Inequalities						
15	Complex Numbers and the Imaginary Unit						
16	Working with Complex Numbers						

Lesson Objectives

Check each objective that the student has mastered.

Le	sson 11	Le	sson 12
	Simplify $d^{ ext{th}}$ -degree radical expressions. Simplify expressions with rational exponents.		Rationalize the denominator of a radical expression.
_			Determine the conjugate of a given expression.
			Use conjugates to simplify radicals with a binomial in the denominator.
			Simplify radical expressions using more than one operation.
Lesson 13			sson 14
	Solve a radical equation.		Solve for the values that make the principal root
	Solve a radical equation written with rational		true. (Name the restrictions on the radicand.)
	(fractional) exponents.	Ш	Solve a radical inequality.
	Determine if there are any extraneous solutions to a radical equation.		Graph the solution to a radical inequality on a number line.
Le	esson 15		sson 16
	Classify complex numbers (real, imaginary, complex).		Simplify expressions with complex numbers in the form of $a+bi$, where a and b are real numbers,
	Define the imaginary unit as $i^2 = -1$.		using addition, subtraction, and multiplication.
	Simplify roots of negative numbers using the		Solve identities with complex numbers.
_	imaginary unit.		Rationalize the denominator with complex
	Simplify powers of the imaginary unit.		conjugates.
_	emping period of the imaginary and		

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NAME:

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Lesson	Explore	Practice	2 1	Mastery Check	Practice 2	Targeted Review	Lesson Test		
17 Parent Functions									
18 Transforming Parent Functions									
19 Finding Inverses Algebraically									
20 Graphing Functions and Their Inverses									
21 Piecewise Functions									
22 Inequality Graphs									
Unit 2 Test Date:				Score:					
]	Lesson O	bjec	ctives					
Check each objective that the stu	dent has mas	stered.							
Name a parent function given the graph or equation: linear, absolute value, square root, cube root, quadratic, cubic, reciprocal. Name the domain and range of parent functions. Graph/Sketch a parent function given the equation: linear, absolute value, square root, cube root, quadratic, cubic, reciprocal. Describe the end behavior of parent functions.				Transform parent functions (vertical, horizontal, dilation) on the coordinate plane. Write the equation of the transformed function given the graph or description. Name the domain and range of transformed parent functions. Name the end behavior of transformed parent functions. Describe how a parent function is being transformed without graphing.					
Lesson 19				Lesson 20					
Determine if functions are inverses of one another algebraically.Find the inverse of a simple function algebraically.			 Graph a function and its inverse on the same coordinate plane and determine if they are functions. Use the horizontal line test to determine if the graph of an inverse is a function. State the domain and range for a rational function. 						
Lesson 21			Lesson 22						
☐ Graph piecewise functions, including scenarios, over the given intervals.				Graph inequalities on the coordinate plane (absolute value, radical, linear, quadratic).					
Write piecewise functions with intervals given a graph.Find the rate of change over a specified interval.									

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