

## ARC Week at Glance

**Subject: Math**

**Course: Advanced Algebra Concepts & Connections**

**Grade: 9<sup>th</sup> – 12<sup>th</sup>**

**Dates: 12/2 to 12/6**

<b>Standard(s):</b> AA.FGR.4.4 Create, interpret and solve radical equations with one unknown value and use them to solve problems that model real- world situations. AA.FGR.4.3 Analyze and graph radical functions. <b>Assessment(s):</b> <input checked="" type="checkbox"/> Quiz <input type="checkbox"/> Unit Test <input type="checkbox"/> Project <input type="checkbox"/> Lab <input type="checkbox"/>						
	<b>Learning Target</b> (I am learning about...)	<b>Criteria for Success</b> (I can...)	<b>Opening</b> (10 - 15 Mins)	<b>Work-Session</b> (20 - 25 mins)	<b>Closing</b> (5 - 10 mins)	<b>Literacy</b> <b>Tasks/Focus</b>
			<i>(Include at least one/two formatives*in any part of the lesson as needed)</i>			
<b>Monday</b>	I am learning about solving equations with radicals.	I can solve equations with radicals.	Flexbook Lesson 3.25 Solving Simple Radical Equations Opener "The legs of a right triangle...."	Modeling and guided practice with RCSS Flexbook Lesson 3.25 pages 407 – 409	Begin page 410 & finish for homework	Were any solutions extraneous? Why?
<b>Tuesday</b>	I am learning about solving equations with radicals and rational exponents.	I can solve equations with radicals and rational exponents.	Model Example 1 on McDougal Little Reteaching 7.6 then assign Exercise #'s 1 – 3 <b>(Do RCSS Flexbook Lesson 3.26 in HONORS)</b>	Model examples 2 – 4 on Reteaching 7.6 & assign Exercise #'s 4 - 12 <b>(Do RCSS Flexbook Lesson 3.26 in HONORS)</b>	Check solutions	Were any solutions extraneous? Why?
<b>Wednesday</b>	I am learning about solving equations with radicals.	I can solve equations with square roots, cube roots and other roots algebraically.	#'s 1 – 3 on Practice on Solving Equations with Radicals <b>*Formative</b>	#'s 4 – 10 on Practice on Solving Equations with Radicals <b>*Formative</b> <b>** #'s 11 – 12 for Honors</b>	Self-reflection on formative: What do you know? What do you need to know?	Self-reflection on formative: What do you know? What do you need to know?
<b>Thursday</b>	I am learning about solving equations with radicals.	I can solve equations with square roots, cube roots and other roots algebraically.	Quick Q&A	Quiz on Solving Equations with Radicals <b>*Summative</b> <b>** #'s 11 – 12 for Honors</b>		

<b>Friday</b>	I am learning about how to graph radical functions.	I can graph square and cube root functions.	Return Quiz Q&A	Complete Introduction to Graphing Square and Cube Root Functions	State the domain and range of each function.	Why are there restrictions on the domain of square root functions? Why aren't there restrictions on graphs of cube root functions?
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\* Exit Ticket/Final Stretch Check    Electronic Tools    Dry Erase Boards – quick checks    Turn & Talk Discussion (verbal responses)    Teacher Observation – document Clipboard  
 Quick Write/Draw    Annotation    Extended Writing    Socratic Seminar    Jigsaw    Thinking Maps    Worked Examples    Other : \_\_\_\_\_