

## 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

| Standard(s):<br>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.<br>AA.FGR.4.3 Analyze and graph radical functions.<br>Assessment(s): <input checked="" type="checkbox"/> Quiz <input type="checkbox"/> Unit Test <input type="checkbox"/> Project <input type="checkbox"/> Lab <input type="checkbox"/> |   |  |  |   |   |   |
|---|---|--|--|---|---|---|
|   | Learning Target<br>(I am learning about...)                                 | Criteria for Success<br>(I can...)   | Opening<br>(10 - 15 Mins)  | Work-Session<br>(20 - 25 mins)  | Closing<br>(5 - 10 mins)  | Literacy<br>Tasks/Focus   |
|   |   |  | (Include at least one/two formatives*in any part of the lesson as needed)  |   |   |   |
| Monday  | I am learning about solving equations with radicals.                        | I can solve equations with radicals.   | Flexbook Lesson 3.25 Solving Simple Radical Equations Opener<br>“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?                                       |
| Tuesday   | 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<br>(Do RCSS Flexbook Lesson 3.26 in HONORS) | Model examples 2 – 4 on Reteaching 7.6 & assign Exercise #'s 4 - 12<br>(Do RCSS Flexbook Lesson 3.26 in HONORS) | Check solutions   | Were any solutions extraneous? Why?                                       |
| Wednesday   | 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<br>*Formative   | #'s 4 – 10 on Practice on Solving Equations with Radicals<br>*Formative<br>** #'s 11 – 12 for Honors            | 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? |
| Thursday  | 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<br>*Summative<br>** #'s 11 – 12 for Honors                              |   |   |

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|---------------|---|---|-----------------|--|--|--|
| <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? |
|---------------|---|---|-----------------|--|--|--|

\*☐ 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 : \_\_\_\_\_