**ARC Week at Glance**

**Subject: Math Course: Advanced Algebra Concepts & Connections Grade: 9th – 12th Dates: 12/2 to 12/6**

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| **Standard(s):**  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.  **Assessment(s):  Quiz  Unit Test  Project  Lab** | | | | | | |
|  | **Learning Target**  **(I am learning about…)** | **Criteria for Success**  **(I can…)** | **Opening**  *(10 - 15 Mins)* | **Work-Session**  *(20 - 25 mins)* | **Closing**  *(5 - 10 mins)* | **Literacy 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  “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  (Do RCSS Flexbook  Lesson 3.26 in HONORS) | Model examples 2 – 4 on Reteaching 7.6 & assign  Exercise #’s 4 - 12  (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  \*Formative | #’s 4 – 10 on Practice on Solving Equations with Radicals  \*Formative  \*\* #’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  \*Summative  \*\* #’s 11 – 12 for Honors |  |  |
| **Friday** | 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 : \_\_\_\_\_\_\_\_\_\_\_