**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):** [x]  **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 & assignExercise #’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 QuizQ&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 [x]  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 [x]  Worked Examples [ ]  Other : \_\_\_\_\_\_\_\_\_\_\_