**ARC Week at Glance**

**Subject: Math Course: Advanced Algebra Concepts & Connections Grade: 9th – 12th Dates: 10/13 to 10/17**

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| **Standard(s):**  AA.FGR.3.3 Use the definition of a logarithm, logarithmic properties, and the inverse relationship between exponential and logarithmic functions to solve problems in context.  AA.FGR.3.4 Create exponential equations and use logarithms to solve contextual problems for which only one variable is unknown.  AA.FGR.3.5 Create and interpret logarithmic equations in one variable and use them to solve problems.  **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** | Fall Break |  |  |  |  |  |
| **Tuesday** | Fall Break |  |  |  |  |  |
| **Wednesday** | I am learning about exponential growth & decay functions in real-life | I can choose and use the appropriate formula to solve real -life exponential applications. | Pre-checks and conferencing on students’ **Which Job? Projects**  \*formative | Correct and Complete **Which Job Would You Choose? Project** |  | Which job should you choose? Why? Is the salary better over the ENTIRE time period? If not, for how many years? |
| **Thursday** | I am learning about logarithms. | I can re-express exponential expressions in log form. | **Introducing Logarithms** Part 1  Which Job? Project is due! | Part II on **Introducing Logarithms** with teacher modeling and guidance | Part III on **Introducing Logarithms** | How do we read  ? How do we evaluate the expression? |
| **Friday** | I am learning about logarithms. | I can evaluate log expressions without using a calculator. | Complete Part I **Sorting Cards Activity** on **“What Is a Logarithm- Spotlight Task?”** | **Quick Quiz** on Evaluating Logarithms | Complete Part II on “**What Is a Logarithm- Spotlight Task**?” |  |

**\*** 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 : \_\_\_\_\_\_\_\_\_\_\_