**ARC Week at Glance**

**Subject: Math Course: Advanced Algebra Concepts & Connections Grade: 9th – 12th Dates: 10/20 to 10/24**

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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** | I am learning about properties of exponents and logarithms. | I can evaluate log expressions using technology/calculator. | **Quick Quiz** on Evaluating Logarithms  \*Summative | Complete Part III on “**What Is a Logarithm- Spotlight Task**?” | Complete Part IV on “**What Is a Logarithm- Spotlight Task**?” | What is the change of base formula? How do we apply it? |
| **Tuesday** | I am learning about properties of logarithms. | I can use the properties of logarithms to expand and condense expressions. | Complete Part I on **Properties of Exponents and Logarithms Learning Task** | Complete Parts II – IV on **Properties of Exponents and Logarithms Learning Task** | Turn & Talk about Part IV- teacher monitors progress | What does the product property tell us about multiplying exponential expressions? …Quotient Property? and the Power Property? |
| **Wednesday** | PSAT |  |  |  |  |  |
| **Thursday** | Above | Above | McDougal Littell Practice 8.4 A  #’s 25 - 30 | McDougal Littell  Practice 8.5A  #’s 2 – 24 even with guidance | McDougal Littell Practice 8.5A  odds independently or with a partner | What does expand mean? Condense? What are attributes of these expressions? |
| **Friday** | I am learning about properties of logarithms | I can use the properties of logarithms to evaluate, expand and condense expressions. | Part I on Practice on Properties of Logarithms | Complete Practice on Properties of Logarithms  \*formative | What do you know and what do you need to study further? | See Closing  (Self-Analysis) |

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