**ARC Week at Glance**

**Subject: Math Course: Advanced Algebra Concepts & Connections Grade: 10th – 12th Dates: 10/6 to 10/10**

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| **Standard(s):**  AA.FGR.3 Explore and analyze structures and patterns for exponential functions.  AA.FGR.3.2 Analyze, graph, and compare exponential and logarithmic functions.  AA.MM.1.2 Create mathematical models to explain phenomena that exist in the natural sciences, social sciences, liberal arts, fine and performing arts, and/or humanities contexts.  **Assessment(s):  Quiz  Unit Test  Project  Lab  None** | | | | | | |
|  | **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 exponential growth & decay functions in real-life | I can calculate interest and value using the continuous interest formula. | Determine value of n: quarterly, semi-annually, monthly, daily, every minute | Interest Problems Learning Task Parts III and IVA | Part IVB  Round robin assigned  To rows of students | Compare linear and exponential growth patterns and make comparisons when choosing better outcomes over time |
| **Tuesday** | 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. | #’s 8 and 9 on Practice with Applications with Exponential Growth & Decay | Complete Practice on Applications with Exponential Growth & Decay  \*formative | Begin **Which Job Would You Choose? Project** due Oct. 13th | Compare interest compounded daily to compounded continuously problems (See opening) |
| **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. | I can precheck **Which Job? Projects** while you take the quiz and conference with you after quiz if desired.  \*formative | Quiz on Applications with Exponential Growth & Decay  \*summative | Continue working on **Which Job Would You Choose? Project**  Can pre-check and provide feedback while you take the quiz.  \*formative | Which job should you choose? Why? Is the salary better over the ENTIRE time period? If not, for how many years? |
| **Thursday** | **Asynchronous Learning** |  |  | Which Job? Project is due Monday Oct. 13th!  \*summative | \*If you send me a pic, I will pre-check your project and provide feedback!  \*formative |  |
| **Friday** | **Professional Learning Day** |  |  |  |  |  |

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