**ARC Week at Glance**

**Subject: Math Course: Advanced Algebra Concepts & Connections Grade: 10th – 12th Dates: 10/14 to 10/18**

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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** | **Fall Break** |  |  |  |  |  |
| **Tuesday** | **Fall Break** |  |  |  |  |  |
| **Wednesday** | I am learning about graphs and characteristics of exponential functions. | I can match functions with their transformations and important characteristics | Finish Notes Handout for Graphing Exponential Growth & Decay | **Exponential Growth & Decay Sorting Cards** in small groups  (Check with guidance and feedback) | Begin Bacteria in the Swimming Pool  ILP Diagnostic | Identify transformations (horizontal or vertical shifts, reflections and dilations) to **compare** different functions |
| **Thursday** | I am learning about graphs and characteristics of exponential functions. | I can graph and describe characteristics of exponential growth & decay functions. | Complete Bacteria in the Swimming Pool  ILP Diagnostic | Complete **Practice** on Graphing Exponential Growth and Decay Handout  \*Formative | Solicit Commentary, share exemplars | T & T: How do you find the y-intercept?  How do you identify the asymptote? …domain & Range? |
| **Friday** | I am learning about graphs and characteristics of exponential functions. | I can graph and describe characteristics of exponential growth & Decay functions. | Quick Study with Q&A | **Quiz** on Graphing Exponential Growth and Decay Handout | I am learning about graphs and characteristics of exponential functions. | I can graph and describe characteristics of exponential growth & Decay 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 : \_\_\_\_\_\_\_\_\_\_\_