**ARC Week at Glance**

**Subject: Math Course: Advanced Algebra Concepts & Connections Grade: 9th – 12th Dates: 4/14 to 4/18**

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| **Standard(s):**  AA.GSR.7 Develop an introductory understanding of the unit circle; solve trigonometric equations using the unit circle.  AA.GSR.7.1 Define the three basic trigonometric ratios in terms of x, y, and r using the unit circle centered at the origin of the coordinate plane.  AA.MM.1.4 Use various mathematical representations and structures to represent and solve real-life 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** | Holiday |  |  |  |  |  |
| **Tuesday** | I am learning about the unit circle. | I can label the coordinates of the endpoints & angle measure, in degrees and radians, of interest around the unit circle. | Label the unit circle handout with degrees, radian measures and endpoints.  \*Formative Quiz | Complete the Exploring the Unit Circle – **Apply** Hiking - You are planning a hiking trip and want to determine… | Label the unit circle handout with degrees, radian measures and endpoints.  \*Summative Quiz | What are patterns you saw when triangles were overlaid on the unit circle? |
| **Wednesday** | I am learning how to graph Sinusoidal functions | I can graph f(x) = sin x | Evaluating and Graphing Trig Functions Part I | Evaluating and Graphing Trig Functions Part II | Evaluating and Graphing Trig Functions Part III | What’s the domain? Range? Amplitude? Midline? Intercepts? |
| **Thursday** | I am learning how to graph Sinusoidal functions | I can graph f(x) = cos x | Evaluating and Graphing Trig Functions Part IV | Evaluating and Graphing Trig Functions Part V | Evaluating and Graphing Trig Functions Part VI | What’s the domain? Range? Amplitude? Midline? Intercepts? |
| **Friday** | Holiday |  |  |  |  |  |

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