**ARC Week at Glance**

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

|  |
| --- |
| **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):** [x]  **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 [x]  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 [x]  Worked Examples [ ]  Other : \_\_\_\_\_\_\_\_\_\_\_