**ARC Week at Glance**

**Subject: Math Course: Advanced Algebra Concepts & Connections Grade: 9th – 12th Dates: 3/17 to 3/21**

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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.**Assessment(s):** [x]  **Quiz** [ ]  **Unit Test** [x]  **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 sin, cosine, and tangent. | I can use trigonometric ratios to solve problems.  | Right Triangle Trigonometry Learning Task page 1 | Right Triangle Trigonometry Learning Task pages 3 - 9 | Right Triangle Trigonometry Learning Task page 2 | What kind of jobs or skills rely on right triangle trigonometry?In what way? |
| **Tuesday** | I am learning about applications with right triangle trigonometry. | I can define and apply sine, cosine, and tangent ratios to right triangles and solve application problems using the trigonometric ratios. | Real-World Example 1on the Right Triangle Trigonometry Learning Task page10 | Right Triangle Trigonometry Learning Task pages 10 - 13 | Quick Quiz on Trigonometry Ratios\*Formative\*\*Summative will be tomorrow’s Opening  | You and your partner create a right triangle word problem and share it. |
| **Wednesday** | I am learning about how sin, cosine, and tangent can be used in the real-world. | I can define and apply sine, cosine, and tangent ratios to right triangles and solve application problems using the trigonometric ratios. | Quick Quiz on Trigonometry Ratios \*Summative |  Find that Side or Angle Learning Task #’s 1 and 3 with teacher guidance and #’s 2 – 4 with peer | Share methodology for #’s 2 and 4 on Find that Side or Angle Learning Task  | Explain why you chose a particular trig ratio for each application problem you did today. |
| **Thursday** | I am learning about how sin, cosine, and tangent can be used in the real-world. | I can define and apply sine, cosine, and tangent ratios to right triangles and solve application problems using the trigonometric ratios. | #’s 1 and 2 on Practice & Review for Right Triangle Trigonometry | #’s 3 – 10 on Practice & Review for Right Triangle Trigonometry\*Formative | Check and share exemplars and do not’s. | Explain why you chose a particular trig ratio for each application problem you did today. |
| **Friday** | I am learning about how sin, cosine, and tangent can be used in the real-world. | I can define and apply sine, cosine, and tangent ratios to right triangles and solve application problems using the trigonometric ratios. | Retest on Quick Quiz on Trig Ratios if you didn’t take or make 100 last Friday.\*Summative | Quiz on Right Triangle Trigonometry\*Summative |  | Word problems, using and applying trig functions to find distance between houses and height of skateboard ramp. |

**\***[ ]  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 : \_\_\_\_\_\_\_\_\_\_\_