

ARC Week at Glance

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

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): <input checked="" type="checkbox"/> Quiz <input type="checkbox"/> Unit Test <input checked="" type="checkbox"/> Project <input type="checkbox"/> Lab <input type="checkbox"/>						
	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 1 on 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.
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* ☐ 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 : _____