

## ARC Week at Glance

**Subject:** Math      **Course:** Advanced Algebra Concepts & Connections      **Grade:** 9<sup>th</sup> – 12<sup>th</sup>      **Dates:** 11/12 to 11/15

**Standard(s):**  
 AA.FGR.3.3 Use the definition of a logarithm, logarithmic properties, and the inverse relationship between exponential and logarithmic functions to solve problems in context.  
 AA.FGR.3.2 Analyze, graph, and compare exponential and logarithmic functions

**Assessment(s):**   ☒ **Quiz**   ☐ **Unit Test**   ☐ **Project**   ☐ **Lab**   ☐

	Learning Target (I am learning about...)	Criteria for Success (I can...)	Opening <i>(10 - 15 Mins)</i>	Work-Session <i>(20 - 25 mins)</i>	Closing <i>(5 - 10 mins)</i>	Literacy Tasks/Focus
			<i>(Include at least one/two formatives*in any part of the lesson as needed)</i>			
Monday	Holiday					
Tuesday	I can graph logarithmic functions.	I can identify the domain, range, asymptote and x-intercept in my graphs of log functions.	Graph $f(x) = 2^x$ Fold along y=x Trace on Patty Paper Open You now see the graph of $f(x) = \log_2 x$	Complete Intro to Graphing Log Functions	Return Graded Quiz from Wednesday, correct, recovery ops if needed	Why does the opener work?
Wednesday	I can graph logarithmic functions.	I can identify the domain, range, asymptote and x-intercept in my graphs of log functions.	Graph $f(x) = 3^x$	Complete More Graphing Log Functions	Worksheet 15.2	Describe transformations in graphing problems.
Thursday	I can graph logarithmic functions.	I can identify the domain, range, asymptote and x-intercept in my graphs of log functions.	Check Worksheet 15.2	Complete Practice & Review Graphing Log Functions *Formative	Check, self-evaluate, Q&A <b>Quiz tomorrow!</b>	What do you know? What do you need to know?

<b>Friday</b>	I can graph logarithmic functions.	I can identify the domain, range, asymptote and x-intercept in my graphs of log functions.	Study, Q&A	Quiz on Graphing Log Functions *Summative		Describe transformations.
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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 : \_\_\_\_\_