

## ARC Week at Glance

**Subject: Math**

**Course: Advanced Algebra Concepts & Connections**

**Grade: 9<sup>th</sup> – 12<sup>th</sup>**

**Dates: 10/28 to 11/1**

<b>Standard(s):</b> 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.3.4 Create exponential equations and use logarithms to solve contextual problems for which only one variable is unknown. AA.FGR.3.5 Create and interpret logarithmic equations in one variable and use them to solve problems.						
<b>Assessment(s):</b> <input checked="" type="checkbox"/> Quiz <input type="checkbox"/> Unit Test <input checked="" type="checkbox"/> Project <input checked="" type="checkbox"/> Lab <input type="checkbox"/>						
	<b>Learning Target (I am learning about...)</b>	<b>Criteria for Success (I can...)</b>	<b>Opening</b> <i>(10 - 15 Mins)</i>	<b>Work-Session</b> <i>(20 - 25 mins)</i>	<b>Closing</b> <i>(5 - 10 mins)</i>	<b>Literacy Tasks/Focus</b>
			<i>(Include at least one/two formatives*in any part of the lesson as needed)</i>			
<b>Monday</b>	I am learning about logarithms.	I can re-express exponential expressions in log form.	Complete <b>Introducing Logarithms</b> Part 1 <b>Which Job? Project is due!</b>	Complete Part II on <b>Introducing Logarithms</b> with teacher modeling and guidance	Complete Part III on <b>Introducing Logarithms</b>	What does inverse mean? Give examples of inverse operations or actions.
<b>Tuesday</b>	I am learning about logarithms.	I can evaluate log expressions without using a calculator.	Complete Part I <b>Sorting Cards Activity</b> on <b>“What Is a Logarithm-Spotlight Task?”</b>	Complete Part II on <b>“What Is a Logarithm- Spotlight Task?”</b>	<b>Quick Quiz</b> on Evaluating Logarithms <b>*Formative</b>	Reflect on Formative- what do you know and what do you need to know?
<b>Wednesday</b>	I am learning about properties of exponents and logarithms.	I can evaluate log expressions using technology/calculator.	<b>Quick Quiz</b> on Evaluating Logarithms <b>*Summative</b>	Complete Part III on <b>“What Is a Logarithm- Spotlight Task?”</b>	Complete Part IV on <b>“What Is a Logarithm- Spotlight Task?”</b>	What is the change of base formula? How do we apply it?
<b>Thursday</b>	I am learning about properties of logarithms.	I can use the properties of logarithms to expand and condense expressions.	Complete Part I on <b>Properties of Exponents and Logarithms Learning Task</b>	Complete Parts II – IV on <b>Properties of Exponents and Logarithms Learning Task</b>	Turn & Talk about Part IV- teacher monitors progress	What does the product property tell us about multiplying exponential expressions? ...Quotient Property? and the Power Property?

Friday	Above	Above	McDougal Littell Practice 8.4 A #’s 25 - 30	McDougal Littell Practice 8.5A #’s 2 – 24 even with guidance	McDougal Littell Practice 8.5A odds independently or with a partner	What does expand mean? Condense? What are attributes of these expressions?
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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 : \_\_\_\_\_