

ARC Week at Glance

Subject: Math **Course:** Advanced Algebra Concepts & Connections **Grade:** 9th – 12th **Dates:** 11/4-11/8

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.3.4 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. Assessment(s): <input checked="" type="checkbox"/> Quiz <input type="checkbox"/> Unit Test <input checked="" type="checkbox"/> Project <input checked="" type="checkbox"/> Lab <input type="checkbox"/>						
	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	I am learning about properties of exponents and logarithms.	I can evaluate log expressions using technology/calculator.	Quick Quiz on Evaluating Logarithms <i>*Summative</i>	Complete Part III on “ What Is a Logarithm- Spotlight Task? ”	Complete Part IV on “ What Is a Logarithm- Spotlight Task? ”	What is the change of base formula? How do we apply it?
Tuesday	I am learning about properties of logarithms.	I can use the properties of logarithms to expand and condense expressions.	Complete Part I on Properties of Exponents and Logarithms Learning Task	Complete Parts II – IV on Properties of Exponents and Logarithms Learning Task	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?
Wednesday	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?
Thursday	I am learning about how to solve logarithms and exponents.	I can solve exponential equations using the properties of logarithms.	RCSS Flexbook Lesson 4.22 Solving Exponential Equations Teacher models examples A, B, and C	RCSS Flexbook Lesson 4.22 Solving Exponential Equations Guided Practice #’s 1 – 3	RCSS Flexbook Lesson 4.22 Solving Exponential Equations Practice #’s 1 – 13	T&T: When do you re-express equation in logarithmic form?

Friday	I am learning about how to solve logarithms and exponents .	I can solve logarithmic equations using the properties of logarithms.	RCSS Flexbook Lesson 4.28 Solving Logarithmic Equations Teacher models examples A, B, and C	RCSS Flexbook Lesson 4.28 Solving Logarithmic Equations Guided Practice #'s 1 – 3	RCSS Flexbook Lesson 4.28 Solving Logarithmic Equations Practice #'s 1 – 10	T&T: When do you re-express equation in exponential form?
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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 : _____