

ARC Week at Glance

Subject: Math **Course:** Advanced Algebra Concepts & Connections **Grade:** 9th – 12th **Dates:** 2/24 to 2/28

Standard(s): AA.PAR.6.1 Use matrices to represent data, and perform mathematical operations with matrices and scalars, demonstrating that some properties of real numbers hold for matrices, but that others do not. Assessment(s): <input checked="" type="checkbox"/> Quiz <input type="checkbox"/> Unit Test <input 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 how to perform operations with matrices.	I can define and construct matrices. I can also add, subtract, and multiply matrices.	#’s 1 – 3 on Practice for Matrix Operations	#’s 4 – 12 on Practice for Matrix Operations *Formative	# 13 on Practice for Matrix Operations	How did you determine the prices of food items with tax included?
Tuesday	I am learning how to perform operations with matrices.	I can define and describe matrices and I can add, subtract, and multiply matrices.	Quick study, Q&A	Quiz on Matrix Operations *Summative	Check things over before turning in!	Use a matrix to organize data for a real-world word problem.
Wednesday	I am learning how mathematical properties are applied to matrix math.	I can apply and use the commutative, associative, identity and inverse properties with matrices	Quick Review- Properties of Real #’s Page 1 in Walk Like a Mathematician Learning Task	Walk Like a Mathematician #’s 1 – 4	Walk Like a Mathematician #5	Is there a zero or identity for adding matrices? If so, what would it look like? What does the product of a matrix and it’s inverse equal?
Thursday	I am learning how mathematical properties are applied to matrix math.	I can find the determinant of a matrix and I can use this skill to find the area of triangles.	Walk Like a Mathematician #’s 6	Walk Like a Mathematician #’s 6 – 7	Walk Like a Mathematician # 8	Suppose a triangle with three vertices has an area of zero. What do you know about the three vertices?

Friday	I am learning about how to apply the inverse property to matrices.	I can use inverse matrices to solve matrix equations.	McDougal Littell Practice Workbook 4.4B #’s 1 – 3	McDougal Littell Practice Workbook 4.4B #’s 4 – 16	McDougal Littell Practice Workbook 4.4B #’s 17 - 21	How can matrices be used to send and receive coded messages?
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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 : _____