

ARC Week at Glance

Subject: Math

Course: Advanced Algebra Concepts & Connections

Grade: 9th – 12th

Dates: 3/3 to 3/7

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.

AA.PAR.6.2 Rewrite a system of linear equations using a matrix representation.

AA.PAR.6.3 Use the inverse of an invertible matrix to solve systems of linear equations.

MA2A9. Students will understand and apply matrix representations of vertex-edge graphs.

Assessment(s): Quiz Unit Test Project Lab

	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
			<i>(Include at least one/two formatives*in any part of the lesson as needed)</i>			
Monday	I am learning how to solve problems using matrices.	I can find the area of triangles and solve applications using matrices.	#’s 1 – 2 with teacher guidance on Problem Solving & Matrix Applications with Systems of Equations	#’s 3 – 6 with partner on Problem Solving & Matrix Applications with Systems of Equations	McDougal Littell Practice 4.3B- finish for homework!	Given verbal scenarios, write and solve a linear system for two or three unknowns.
Tuesday	I am learning how to solve problems using matrices.	All Above	#’s 14 – 15 on Practice & Review on Properties and Solving Systems of Equations with Matrices	#’s 1 – 13 on Practice & Review on Properties and Solving Systems of Equations with Matrices *Formative	Check and display classwork	Given verbal scenarios, write and solve a linear system for two or three unknowns.
Wednesday	I am learning how to solve problems using matrices.	All Above	Quick Study/Review	Quiz on Properties and Solving Systems of Equations with Matrices *Summative		Given verbal scenarios, write and solve a linear system for two or three unknowns.

Thursday	I am learning about vertex edge graphs (digraphs).	I can construct digraphs and matrices to model one, two and three stage events in the real-world setting.	Read page 1 on “The Okefenokee Food Web” Digraphs Task and construct a matrix to model the food web in this ecosystem.	Complete #'s 2 – 7 on “The Okefenokee Food Web” Digraphs Task with guidance and sharing	Complete # 8 on “The Okefenokee Food Web” Digraphs Task	#8- Organize and summarize your findings for a report on the use of insecticide in this ecosystem.
Friday	I am learning about vertex edge graphs (digraphs).	I can construct digraphs and matrices to model one, two and three stage events in the real-world setting.	Complete the “Secret Sharing” on Digraphs Task then Turn & Talk	Exercise Set B (page 62 Georgia High School Mathematics)	Share vertex-edge graphs for #'s 10 – 12 on Exercise Set B	Explain why you drew your digraph the way you did. What can it tell you?

* 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 : _____