

ARC Week at Glance

Subject: Math Course: Advanced Algebra Concepts & Connections Grade: 9th – 12th Dates: 3/10 to 3/14

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 | Asynchronous | | | Desmos | | |
| Tuesday | 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 – 8 on “The Okefenokee Food Web” Digraphs Task with guidance and sharing | Complete the “Secret Sharing” on Digraphs Task then Turn & Talk | #8- Organize and summarize your findings for a report on the use of insecticide in this ecosystem. |
| Wednesday | 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. | Culminating Task “Georgia Air-Taxi” *Summative | Culminating Task “Georgia Air-Taxi” *Summative | When you complete the Task, begin The Unit 5 Practice & Review *Formative | What does your matrix mean in the context of these problems? |
| Thursday | All Unit 5 | All Unit 5 | Return graded Task-view commentary and exemplars | Model, check, share examples of solutions on the Unit 5 Practice & Review *Formative | Study- Unit Test tomorrow! | What do you know? What do you need to know? |

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| Friday | All Unit 5 | All Unit 5 | Quick Study | Unit 5 Test *Summative | | |
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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 : _____