**ARC Week at Glance**

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

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| **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** |
| *(Include at least one/two formatives\*in any part of the lesson as needed)* | | |
| **Monday** | Asynchronous |  |  | Desmos |  |  |
| **Tuesday** | I am learning about vertex edge graphs (diagraphs). | 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 (diagraphs). | 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? |
| **Friday** | All Unit 5 | All Unit 5 | Quick Study | Unit 5 Test  \*Summative |  |  |

**\*** 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 : \_\_\_\_\_\_\_\_\_\_\_