**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** [x]  **Unit Test** [x]  **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 [x]  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 [x]  Worked Examples [ ]  Other : \_\_\_\_\_\_\_\_\_\_\_