**ARC Week at Glance**

**Subject: Math Course: Advanced Algebra Concepts & Connections Grade: 9th – 12th Dates: 1/6 to 1/10**

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| **Standard(s):** AA.FGR.5.1 Graph and analyze quadratic functions in contextual situations and include analysis of data sets with regressions.**Assessment(s):** [x]  **Quiz** [ ]  **Unit Test** [ ]  **Project** [x] **EXAM PREP** |
|  | **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 about graphs of quadratic functions. | I can identify the domain, range, vertex, and axis of symmetry for each function.  | Complete #’s 1 – 4 on Teaching and Learning Task for Graphing Parabolas in **vertex form**. | Modeling and guided practice for #’s 5 -7 on the Teaching and Learning Task for Graphing Parabolas in **vertex form**.  | #8 on the Teaching and Learning Task for Graphing Parabolas in **vertex form**\*ticket out the door | Turn & Talk after you complete the opening. Do you and partner agree on the transformations? |
| **Tuesday** | I am learning about graphs of quadratic functions. | I can write quadratic functions in vertex form by completing the square. | #’s 9-10 on the Teaching and Learning Task for Graphing Parabolas in **vertex form** | Modeling and guided practice for #’s 11 - 13 on the Teaching and Learning Task for Graphing Parabolas in **vertex form** | #” 14 – 15 on the Teaching and Learning Task for Graphing Parabolas in **vertex form**\*ticket out the door | Turn & Talk after you complete the opening. Do you and partners graphs look the same? |
| **Wednesday** | I am learning about graphs of quadratic functions. | I can identify the domain, range, vertex, and axis of symmetry for each quadratic function.  | Complete #1 on the Teaching and Learning Task for Graphing Parabolas in **standard form.** | Modeling and guided practice for #’s 2 -5 on the Teaching and Learning Task for Graphing Parabolas in **standard form.** | #8 on the Teaching and Learning Task for Graphing Parabolas in **standard form.**\*ticket out the door | Turn & Talk: Which form of parabolas (Standard or Vertex) is easiest to graph and identify important characteristics? |
| **Thursday** | I am learning about graphs of quadratic functions. | I can identify the domain, range, vertex, and axis of symmetry for each quadratic function.  | Randomly assign #’s 1, 2, 3, and 4 on Practice on Parabolas to pairs of students then have them share with class.\*Formative | Complete #’s 5 – 10 on Practice on Parabolas\*Formative | Share do’s and do nots with exemplars  | What do you know? What do you need to know? |
| **Friday** | I am learning about graphs of quadratic functions. | I can identify the domain, range, vertex, and axis of symmetry for each quadratic function.  | Quick Q&A | Quiz on Graphing Parabolas |  | Describe transformations in #’s 5 – 8 on Quiz |

**\***[ ]  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 : \_\_\_\_\_\_\_\_\_\_\_