**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):  Quiz  Unit Test  Project 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  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 : \_\_\_\_\_\_\_\_\_\_\_