**ARC Week at Glance**

**Subject: Math Course: Advanced Algebra Concepts & Connections Grade: 9th – 12th Dates: 1/27 to 1/31**

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| **Standard(s):**  AA.FGR.5.2 Define complex numbers i such that i 2 = –1 and show that every complex number has the form a + bi where a and b are real numbers and that the complex conjugate is a - bi.  AA.FGR.5.4 Use the structure of an expression to factor quadratics.  **Assessment(s):  Quiz  Unit Test  Project #-Tiles Activity** | | | | | | |
|  | **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 factoring quadratic expressions. | I can factor quadratic expressions. | Factor the following: | Check Pizzazz  (Learn@Home)  then Model Number Tile Activity using Card 10 and  Small Groups complete  #-Tiles Activity  \*Teacher checks- 20 points per card so five cards correct for a 100 | Check #-Tile Activity and provide feedbacl and guidance. | What influence do the signs within quadratic expressions play when factoring? |
| **Tuesday** | I am learning about solving quadratic equations. | I can solve quadratic equations by factoring then applying the zero property. | What’s the zero property? Give examples too. | Modeling & guided practice with #’s 2 – 12 **even** on Learning and Teaching Task for Solving Quadratic Equations by Factoring and the Zero Property | Begin **odds** 1 – 11, finish for homework | See Opener |
| **Wednesday** | I am learning about creating models to solve real-world quadratic equations. | I can create models and solve applications with quadratic equations. | Sketch and label a model to represent  #’s 13 and 14 real-world applications. | Modeling & guided practice with #’s 14 – 22 **even** on Learning and Teaching Task for Solving Quadratic Equations by Factoring and the Zero Property | Begin **odds** 15 – 21, finish for homework | Given real-world application exercises, construct visual and algebraic models to represent each scenario. |
| **Thursday** | I am learning about solving quadratic equations. | I can solve quadratic equations by factoring then applying the zero property. | Check **odds** 15 – 21, finish for homework | Practice & Review Worksheet on Factoring  Quadratic Expressions  \*Formative | Study | How do we solve quadratic equation by factoring? |
| **Friday** | I am learning about solving quadratic equations. | I can solve quadratic equations by factoring then applying the zero property. |  | Quiz on Factoring Quadratic Expressions  \*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 : \_\_\_\_\_\_\_\_\_\_\_