**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** [x] **#-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 andSmall 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 FactoringQuadratic 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 [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 : \_\_\_\_\_\_\_\_\_\_\_