## **ARC Week at Glance**

## Subject: Math **Course: Advanced Algebra Concepts & Connections** Grade: $9^{th} - 12^{th}$ Dates: 1/27 to 1/31

## **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
			Factor the following: $x^2 - 5x + 6$	Check Pizzazz (Learn@Home)		
Monday	l am learning about factoring quadratic expressions.	I can factor quadratic expressions.	$x^{2} + 5x + 6$ $x^{2} + 5x - 6$ $x^{2} - 5x - 6$ $x^{2} + 12x + 26$	then Model Number Tile Activity using Card 10 and Small Groups complete #-Tiles Activity	Check #-Tile Activity and provide feedbacl and guidance.	What influence do the signs within quadratic expressions play when factoring?
			$     x + 12x + 36      x^2 - 12x + 36      x^2 - 36 $	per card so five cards correct for a 100		
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 <b>even</b> on Learning and Teaching Task for Solving Quadratic Equations by Factoring and the Zero Property	Begin <b>odds</b> 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 <b>even</b> on Learning and Teaching Task for Solving Quadratic Equations by Factoring and the Zero Property	Begin <b>odds</b> 15 – 21, finish for homework	Given real-world application exercises, construct visual and algebraic models to represent each scenario.

Thursday	l am learning about solving quadratic equations.	I can solve quadratic equations by factoring then applying the zero property.	Check <b>odds</b> 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 : \_\_\_\_\_\_