ARC Week at Glance

Subject: Math Course: Advanced Algebra Concepts & Connections Grade: 9th – 12th Dates: 1/13 to 1/17

Standard(s):
AA.FGR.5.1 Graph and analyze quadratic functions in contextual situations and include analysis of data sets with regressions.
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.5.3 Use the relation i 2 = –1 and the commutative, associative, and distributive properties to add, subtract, and multiply complex numbers

Assessment(s): ☒ Quiz ☐ Unit Test ☐ Project ☒Apply Activity (Major)

	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 make sense of parabolas in real-world scenarios.	Complete Graphs Unmasked -Diagnostic Activity. *Formative assessment	Complete Graphs Unmasked -Explore Activity.	Begin Graphs Unmasked -Apply Activity in small groups *Summative assessment	Turn & Talk after you complete the explore activity. Do you and partner agree?
Tuesday	I am learning about graphs of quadratic functions.	I can make sense of parabolas in real-world scenarios.	Return teacher pre-checked with feedback Graphs Unmasked - Apply Activity in small groups *Summative assessment	Correct and re-turn-in Graphs Unmasked - Apply Activity in small groups *Summative assessment	Complete Parts I and II on Introducing the Imaginary Unit I (Homework)	What's a perfect square number?
Wednesday	I am learning about the imaginary unit i.	I can simplify expressions with powers of I and negative radicands.	Check Parts I and II on Introducing the Imaginary Unit i	Modeling and guided practice for Parts III and IV on Introducing the Imaginary Unit i	T&T: Why do simplifications repeat when we raise the imaginary unit I to exponents greater than 4?	See closing
Thursday	I am learning about the imaginary unit I and how to perform operations with complex numbers.	I can add, subtract, multiply and divide complex numbers.	Complete #'s 1 – 15 on Practice with Complex Numbers	Do odds or evens on rest of the Practice Worksheet *Formative assessment	Check, display or model exemplars	How do we simplify expressions with the imaginary unit I raised to some power?

Friday	I am learning about the imaginary unit I and how to perform operations with complex numbers.	I can simplify expressions with powers of I and negative radicands and I can add, subtract, multiply and divide complex numbers	Quick Study	Quiz on Imaginary Unit I and Complex #'s *Summative assessment		

***** ☐ 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 : _____