ARC Week at Glance

Subject: Math Course: Advanced Algebra Concepts & Connections Grade: 10th – 12th Dates: 8/19 to 8/23

Standard(s): AA.DSR.2 Communicate descriptive and inferential statistics by collecting, critiquing, analyzing, and interpreting real-world data. AA.DSR.2.1 Recognize the purposes of and differences among sample surveys, experiments, and observational studies; explain how randomization relates to each. AA.MM.1: Apply mathematics to real-life situations; model real-life phenomena using mathematics Assessment(s): \Box Quiz \Box Unit Test \Box Project \Box Lab \Box None Literacy **Learning Target Closing Opening** Work-Session **Criteria for Success** Tasks/Focus (I am learning (10 - 15 Mins) (20 - 25 mins)(5 - 10 mins)(I can...) about...) (Include at least one/two formatives*in any part of the lesson as needed) Use your eyes and Comment on the I am learning how to I can use sample circle 10 words you Complete Part I on "How shape, center and Components of good collect and display variability of this analysis address the statistics to make think are Long are the Words in the Monday Gettysburg Address?" ILP sample data. inferences about representative of the distribution. Based shape, center and population parameters varying word lengths in Task on the dotplot, give spread of a based on a random distribution. Let's share the Gettysburg a range of typical values for a sample sample from a Address. Record the and refine our words and the lengths population. mean using selfresponses. in Table 1.1. selected sampling. Jot down I am learning how to I can use sample Do you think our Complete Part II on "How Discuss and include similarities, statistics to make method of trusting our comparison words perform a simple Long are the Words in the differences and Tuesday Gettysburg Address?" ILP random sample and inferences about eyes to select a sample rough equivalencies explicitly in your analyzing sampling population parameters yesterday did a good Task based on the data analysis. job? Why or why not? distributions. based on a random shown in our graphs (see closing) sample from a from Part Land Part population. Ш Wednesday I am learning about I can use the Empirical Estimate the mean and Modeling and teacher #2 on the Empirical Do you think the Normal distributions Rule to estimate standard deviation for guided practice with Rule Task with a **Empirical Rule applies** Collection #1 on the to this distribution? and the Empirical percentiles for Normal Collection #1 on the peer distributions **Empirical Rule Task Empirical Rule Task** Why or why not? Rule

rsday	I am learning about Normal distributions	I can use the Empirical rule to determine	Small Groups formed and randomly assigned	Complete (fill-in the blanks) on the assigned	"Jigsaw"- each group tells class their analysis and	Do you think the Empirical Rule applies
Thurse	and the Empirical Rule	whether data is distributed Normally	collection 3, 4, 5, or 6 on the Empirical Rule	collection to do analysis with your group	whether they think their distribution is	to this distribution? Why or why not?
			Task		approximately Normal or not and	
					why.	
			Formative Assessment:	Discuss methodology for	Study-Monday's	How is the area under
Friday	I am learning about	I can use the Empirical	Complete Quick Quiz	opener, then complete	Opener will be the	a Normal curve
	Normal distributions	rule to determine	on the Empirical Rule	#'s 1 – 12 on Applications	Quick Quiz on the	distributed 1, 2, and 3
	and the Empirical	whether data is	and tell how you	with the Empirical Rule	Empirical Rule for a	standard deviations
	Rule	distributed Normally	determined the area in	and Normal Distributions	minor (Summative)	from the mean?
			each region	with teacher guidance.	assessment grade!	Explain methods.

☐ 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: ______