

## ARC Week at Glance

**Subject: Math**

**Course: Advanced Algebra Concepts & Connections**

**Grade: 10<sup>th</sup> – 12<sup>th</sup>**

**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):							
Quiz	Unit Test	Project	Lab	None			
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
		<i>(Include at least one/two formatives*in any part of the lesson as needed)</i>					
<b>Monday</b>	I am learning how to collect and display sample data.	I can use sample statistics to make inferences about population parameters based on a random sample from a population.	Use your eyes and circle 10 words you think are representative of the varying word lengths in the Gettysburg Address. Record the words and the lengths in Table 1.1.	Complete Part I on "How Long are the Words in the Gettysburg Address?" ILP Task	Comment on the shape, center and variability of this distribution. Based on the dotplot, give a range of typical		

<b>Thursday</b>	I am learning about Normal distributions and the Empirical Rule	I can use the Empirical rule to determine whether data is distributed Normally	Small Groups formed and randomly assigned collection 3, 4, 5, or 6 on the Empirical Rule Task	Complete (fill-in the blanks) on the assigned collection to do analysis with your group	"Jigsaw" - each group tells class their analysis and whether they think their distribution is approximately Normal or not and why.	Do you think the Empirical Rule applies to this distribution? Why or why not?
<b>Friday</b>	I am learning about Normal distributions and the Empirical Rule	I can use the Empirical rule to determine whether data is distributed Normally	Formative Assessment: Complete Quick Quiz on the Empirical Rule and tell how you determined the area in each region	Discuss methodology for opener, then complete #'s 1 – 12 on Applications with the Empirical Rule and Normal Distributions		