**ARC Week at Glance**

**-Subject: Mathematics Course: Advance Algebra: Concepts & Connections Grade:** **10th – 12th Date: 9/22/2025**

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| **Standard(s):** AA.DSR.2.2 When collecting and considering data, critically evaluate ethics, privacy, potential bias, and confounding variables along with their implications for interpretation in answering a statistical investigative question. Implement strategies for organizing and preparing big data sets.  AA.DSR.2.3 Distinguish between population distributions, sample data distributions, and sampling distributions. Use sample statistics to make inferences about population parameters based on a random sample from that population and to communicate conclusions using appropriate statistical language.  AA.DSR.2.4 Calculate and interpret z-scores as a measure of relative standing and as a method of standardizing units.  AA.DSR.2.5 Given a normally distributed population, estimate percentages using the Empirical Rule, z-scores, and technology.  AA.FGR.3.1 Find the inverse of exponential and logarithmic functions using equations, tables, and graphs, limiting the domain of inverses where necessary to maintain functionality, and prove by composition or verify by inspection that one function is the inverse of another  **Assessment(s):  Quiz  Unit Test  Project  Lab  None** | | | |
|  | **Learning Target**  **(I am learning about…)** | **Success Criteria**  **(I can….)** | **Lesson/Activities of the Day** | **Assignments/Formative Assessment** |
| **Monday** | I am learning to create exponential growth and decay models and make inferences | I can create exponential growth and decay models and make inferences | Teacher will review with the students the learn at home assignments given last week.  Teacher will review:  Exponential Growth and Decay Models | Canvas and Delta Math Assignments |
| **Tuesday** | I am learning to create exponential growth and decay models and make inferences  I am learning to create and make inferences from compound interest models | I can create exponential growth and decay models and make inferences  I can create and make inferences from compound interest models | Teacher will review with the students the following:   * Exponential Growth Models * Exponential Decay Models * Making inferences from exponential growth and decay models   Teacher will discuss with the students:   * Creating compound interest models using exponential equations * Making inferences from compound interest models   Students will then work on their assignment over compound interest models | Assignment over Compound Interest Models |
| **Wednesday** | I am learning to create exponential growth and decay models and make inferences  I am learning to create and make inferences from compound interest models  I am learning to graph exponential functions and its transformations | I can create exponential growth and decay models and make inferences  I can create and make inferences from compound interest models  I can graph exponential functions and its transformations | Teacher will review with the students the following:   * Exponential Growth Models * Exponential Decay Models * Making inferences from exponential growth and decay models * Creating compound interest models using exponential equations * Making inferences from compound interest models   Teacher will discuss with the students:   * Graphing exponential functions * Transformations of Exponential Functions   Students will work on Delta Math Assignment over Graphing Exponential Functions | Assignment over Graphing Exponential Functions and its transformations |
| **Thursday** | I am learning to create exponential growth and decay models and make inferences  I am learning to create and make inferences from compound interest models  I am learning to graph exponential functions and its transformations | I can create exponential growth and decay models and make inferences  I can create and make inferences from compound interest models  I can graph exponential functions and its transformations | Teacher will review with the students the following:   * Exponential Growth Models * Exponential Decay Models * Making inferences from exponential growth and decay models * Creating compound interest models using exponential equations * Making inferences from compound interest models   Teacher will discuss with the students:   * Graphing exponential functions * Transformations of Exponential Functions   Students will work on assignments | Assignment over Graphing Exponential Functions and its transformations |
| **Friday** | I am learning to create exponential growth and decay models and make inferences  I am learning to create and make inferences from compound interest models  I am learning to graph exponential functions and its transformations | I can create exponential growth and decay models and make inferences  I can create and make inferences from compound interest models  I can graph exponential functions and its transformations | Students will complete their assessment over Compound Interest/Growth and Decay Models/Graphing Exponential Functions | 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 :\_\_\_\_\_\_\_\_\_\_\_