**ARC Week at Glance**

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

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| **Standard(s):** A.FGR.2.2: Construct and interpret the graph of a linear function that models real-life phenomena and represent key characteristics of the graph using formal notation.  A.FGR.2.3: Relate the domain and range of a linear function to its graph and, where applicable, to the quantitative relationship it describes. Use formal interval and set notation to describe the domain and range of linear functions.  A.FGR.2.4: Use function notation to build and evaluate linear functions for inputs in their domains and interpret statements that use function notation in terms of a mathematical framework.  A.FGR.2.5: Analyze the difference between linear functions and nonlinear functions by informally analyzing the graphs of various parent functions (linear, quadratic, exponential, absolute value, square root, and cube root parent curves).  A.PAR.4.1 Create and solve linear inequalities in two variables to represent relationships between quantities including mathematically applicable situations; graph inequalities on coordinate axes with labels and scales.  A.PAR.4.2 Represent constraints of linear inequalities and interpret data points as possible or not possible.  **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 construct and interpret the graph of a linear inequalities | I can construct and interpret the graph of a linear inequality | Teacher will review with the students the learn at home assignments given last week.  Teacher will review:  Creating and Solving Linear Inequalities | Assignments over Creating and Solving Linear Inequalities |
| **Tuesday** | I am learning to construct and interpret the graph of a linear function  I am learning to create and interpret system of linear inequalities | I can construct and interpret the graph of a linear function  I can create and interpret system of linear inequalities | Teacher will review with the students the following:   * Creating Linear Inequalities from one variable * Creating Linear Inequalities from two variables * Making inferences from the created linear inequalities   Teacher will discuss with the students:   * Creating a system of linear inequalities * Graphing systems of linear inequalities * Making inferences from created system of linear inequalities   Students will then work on their TOTD System of Linear Inequalities | TOTD for System of Linear Inequalities |
| **Wednesday** | I am learning to construct and interpret the graph of a linear function  I am learning to create and interpret system of linear inequalities | I can construct and interpret the graph of a linear function  I can create and interpret system of linear inequalities | Teacher will review with the students the following:   * Creating Linear Inequalities from one variable * Creating Linear Inequalities from two variables * Making inferences from the created linear inequalities   Teacher will discuss with the students:   * Creating a system of linear inequalities * Graphing systems of linear inequalities * Making inferences from created system of linear inequalities   Students will then work on their Performance Task over System of Linear Inequalities | Performance Task over System of Linear Inequalities |
| **Thursday** | I am learning to construct and interpret the graph of a linear function  I am learning to create and interpret system of linear inequalities | I can construct and interpret the graph of a linear function  I can create and interpret system of linear inequalities | Teacher will review with the students the following:   * Creating Linear Inequalities from one variable * Creating Linear Inequalities from two variables * Making inferences from the created linear inequalities   Teacher will review with the students:   * Creating a system of linear inequalities * Graphing systems of linear inequalities * Making inferences from created system of linear inequalities   Students will then work on their Performance Task over System of Linear Inequalities | Performance Task over System of Linear Inequalities |
| **Friday** | I am learning to construct and interpret the graph of a linear function  I am learning to create and interpret system of linear inequalities | I can construct and interpret the graph of a linear function  I can create and interpret system of linear inequalities | Students will complete their assessment over Linear Inequalities | Assessment over Linear Inequalities |

**\*** 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 :\_\_\_\_\_\_\_\_\_\_\_