**ARC Week at Glance**

**-Subject: Mathematics Course: Algebra Grade:**  **9-12 Date: 8/25/2025**

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| **Standard(s):**  **A.MM.1: Apply mathematics to real-life situations; model real-life phenomena using mathematics.**   * **A.MM.1.1 – Explain applicable, mathematical problems using a mathematical model.** * **A.MM.1.2 – Create mathematical models to explain phenomena that exist in the natural sciences, social sciences, liberal arts, fine and performing arts, and/or humanities domains** * **A.MM.1.4 – Use various mathematical representations and structures with this information to represent and solve real-life problems.**   **A.FGR.2: Construct and interpret arithmetic sequences as functions, algebraically and graphically, to model and explain real-life phenomena. Use formal notation to represent linear functions and the key characteristics of graphs of linear functions and informally compare linear and nonlinear functions using parent graphs.**   * **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.**   **Assessment(s):  Quiz  Unit Test  Project  Lab  None** | | | |
|  | **Learning Target**  **(I am learning about…)** | **Success Criteria**  **(I can….)** | **Lesson/Activities of the Day** | **Literacy Tasks/Focus** |
| **Monday** | I am learning how to identify appropriate domain and range values given a context.  I am learning how to use set notation to describe the domain and range values of linear functions. | I can identify appropriate domain and range values given a context.  I can use set notation to describe the domain and range values of linear functions. | **(Reteach) Functional Notation**  Students will revisit and review graphing a linear function; identifying characteristic using interval and set notation for the slope, y-intercept, x-intercept, domain of the function, and the range of the function; and interpret the key characteristics of the graph in the context. | Students will use math terminology to identify the domain and range values of a linear function. |
| **Tuesday** | I am learning how to identify appropriate domain and range values given a context.  I am learning how to use set notation to describe the domain and range values of linear functions. | I can identify appropriate domain and range values given a context.  I can use set notation to describe the domain and range values of linear functions. | **(Reasses) Functional Notation**  Students will revisit and review graphing a linear function; identifying characteristic using interval and set notation for the slope, y-intercept, x-intercept, domain of the function, and the range of the function; and interpret the key characteristics of the graph in the context. | Students will use math terminology to identify the domain and range values of a linear function. |
| **Wednesday** | I am learning how to identify appropriate domain and range values given a context.  I am learning how to use set notation to describe the domain and range values of linear functions. | I can identify appropriate domain and range values given a context.  I can use set notation to describe the domain and range values of linear functions. | MAP Diagnostic Assessment (Block Schedule) | Students will use math terminology to identify the domain and range values of a linear function. |
| **Thursday** | I am learning how to identify appropriate domain and range values given a context.  I am learning how to use set notation to describe the domain and range values of linear functions | I can identify appropriate domain and range values given a context.  I can use set notation to describe the domain and range values of linear functions. | MAP Diagnostic Assessment (Block Schedule) | Students will use math terminology to identify the domain and range values of a linear function. |
| **Friday** | I am learning how to identify appropriate domain and range values given a context.  I am learning how to use set notation to describe the domain and range values of linear functions | I can identify appropriate domain and range values given a context.  I can use set notation to describe the domain and range values of linear functions. | MAP Diagnostic Assessment (Block Schedule) | Students will use math terminology to identify the domain and range values of a linear function. |

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