**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):** [x]  **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 :\_\_\_\_\_\_\_\_\_\_\_