**ARC Week at Glance**

**-Subject: Mathematics Course: Algebra: Concepts & Connections Grade:** **9th – 12th Date: 8/19/2024**

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| **Standard(s):** 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).  **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 use function notation to build and evaluate linear functions and distinguish between linear and nonlinear functions | I can use function notation to build and evaluate linear functions and distinguish between linear and nonlinear functions | * Teacher will introduce and discuss function notation with students * Teacher will introduce and discuss how to build/create linear functions from real-world scenarios * Teacher will review how to graph using function notation using intervals and set notation * Teacher will provide guided practice problems for students | T.O.T.D. over making t-chart |
| **Tuesday** | I am learning to use function notation to build and evaluate linear functions and distinguish between linear and nonlinear functions | I can use function notation to build and evaluate linear functions and distinguish between linear and nonlinear functions | * Teacher will introduce and discuss function notation with students * Teacher will introduce and discuss how to build/create linear functions from real-world scenarios * Teacher will review how to graph using function notation using intervals and set notation * Teacher will provide guided practice problems for students * Teacher (and co-teacher) will break into small groups and 1-on-1 sessions to ensure student learning (based off of teacher observation, formative assessment or student needs) | Function Notation and Creating Linear Functions Classwork 1 |
| **Wednesday** | I am learning to use function notation to build and evaluate linear functions and distinguish between linear and nonlinear functions | I can use function notation to build and evaluate linear functions and distinguish between linear and nonlinear functions | * Teacher will introduce and discuss the difference between linear and nonlinear functions * Teacher will illustrate algebraically, in a table and graphically, the difference between linear and nonlinear functions * Teacher (and co-teacher) will break into small groups and 1-on-1 sessions to ensure student learning (based off of teacher observation, formative assessment or student needs) | Linear vs Non-Linear Functions |
| **Thursday** | I am learning to use function notation to build and evaluate linear functions and distinguish between linear and nonlinear functions | I can use function notation to build and evaluate linear functions and distinguish between linear and nonlinear functions | * Teacher will introduce and discuss the difference between linear and nonlinear functions * Teacher will illustrate algebraically, in a table and graphically, the difference between linear and nonlinear functions * Teacher (and co-teacher) will break into small groups and 1-on-1 sessions to ensure student learning (based off of teacher observation, formative assessment or student needs) | Construct and interpret real-world graphs from a linear function Task |
| **Friday** | I am learning to use function notation to build and evaluate linear functions and distinguish between linear and nonlinear functions | I can use function notation to build and evaluate linear functions and distinguish between linear and nonlinear functions | * Teacher will provide students with assessment over function notation and linear vs nonlinear * Students will complete assessment | Formative Assessment over constructing and interpreting a graph from 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 :\_\_\_\_\_\_\_\_\_\_\_