

S. P. ARNETT MIDDLE SCHOOL
COMMON CORE ALIGNED LESSON PLAN TEMPLATE

TEACHER: Ashleigh Richardson
DATE: November 27- December 1, 2023

SUBJECT: Mathematics
GRADE: 8th

CCSS: Common Core Learning Standard(s) Addressed:

MATH

8.G.A.3-Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates.

ALGEBRA 1

HSF-IF.A.1-Understand that a function from one set (called the domain) to another set (called the range) assigns to each element of the domain exactly one element of the range. If f is a function and x is an element of its domain, then $f(x)$ denotes the output of f corresponding to the input x . The graph of f is the graph of the equation $y = f(x)$.

HSF-IF.A.2-Use function notation, evaluate functions for inputs in their domains, and interpret statements that use function notation in terms of a context.

HSF-IF.B.5-Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes. For example, if the function $h(n)$ gives the number of person-hours it takes to assemble n engines in a factory, then the positive integers would be an appropriate domain for the function.

HSF-IF.C.7.a-Graph linear and quadratic functions and show intercepts, maxima, and minima.

Danielson, 1c

Monday 11/27/23

Algebra I

- Bellringer: Write Solutions in Set Notation
- We Will: Use the definition of a function to identify examples of functions and their domains and ranges.
- Eureka Math² Module 3: Lesson 1: The Definition of a Function
- I Will: Use function notation to express outputs for given inputs of a function

Regular Math

- Bellringer: Name the Rigid Motion
- We Will: Informally describe the effects of dilations.
- Eureka Math² Module 3: Lesson 1: Exploring Dilations
- I Will: Classify a dilation as a transformation that is not a rigid motion.

Tuesday 11/28/23

Algebra I

- Bellringer: Evaluate One-Variable Expressions
- We Will: Represent functions with equations and examine their domains.
- Eureka Math² Module 3: Lesson 2: Representing, Naming, and Evaluating Functions
- I Will: Interpret statements that use function notation in context.

Regular Math

- Bellringer: Solve One-Step Equations
- We Will: Apply a dilation with a whole-number scale factor greater than 1.
- Eureka Math² Module 3: Lesson 2: Enlargements
- I Will: Describe the effects of a dilation with a whole-number scale factor greater than 1.

Wednesday 11/29/23

Algebra I

- Bellringer: Evaluate One-Variable Expressions
- We Will: Graph functions by evaluating them for select inputs in their domains.
- Eureka Math² Module 3: Lesson 3: The Graph of a Function
- I Will: Relate the domain of a function to its graph.

Regular Math

- Bellringer: Solve One-Step Equations
- We Will: Apply a dilation with a scale factor greater than 0.
- Eureka Math² Module 3: Lesson 3: Reductions and More Enlargements
- I Will: Describe the effects of a dilation with a scale factor greater than 0.

Thursday 11/30/23

Algebra I

- Bellringer: Determine Whether Ordered Pairs Belong to Functions.
- We Will: Graph the equation $y=f(x)$ and compare it to the graph of f .
- Eureka Math² Module 3: Lesson 4: The Graph of the Equations $y=f(x)$.
- I will: Explain how the graph of the equation $y=f(x)$ compares to the graph of f .

Regular Math

- Bellringer: Study for Quiz
- We Will: Review/Ask Questions about Study Guide for Eureka Math² Module 3: Topic A Quiz
- Eureka Math² Module 3: Topic A Quiz
- I Will: Take Eureka Math² Module 3: Topic A Quiz

Friday 12/1/23

Algebra I

- Bellringer: Function Instructions
- We Will: Use pseudocode to make sense of the processes of graphing a function f and the equation $y=f(x)$.
- Eureka Math² Module 3: Lesson 5: Using Pseudocode to Compare Graphs of Functions and Graphs of Equations.
- I Will: Expand our understanding of the thought process behind graphing a function versus graphing an equation.

Regular Math

- Bellringer: Parallel Lines and Angle Relationships
- We Will: Learn the properties of dilations.
- Eureka Math² Module 3: Lesson 4: Using Lined Paper to Explore Dilations
- I Will: Draw the image of a segment under a dilation.

Danielson, 2c, 3b, 3c,

Resources/Materials: (What texts, digital resources, & materials will be used for this lesson?)

1. Bellringer PDF
2. Other materials embedded in daily lesson/activity plan

Danielson, 2c, 3c