

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

TEACHER: Ashleigh Richardson

SUBJECT: Mathematics

DATE: January 22-26, 2024

GRADE: 8<sup>th</sup>

CCSS: Common Core Learning Standard(s) Addressed:

**MATH**

8.EE.C.7-Solve linear equations in one variable.

8.EE.C.7.a-Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form  $x = a$ ,  $a = a$ , or  $a = b$  results (where  $a$  and  $b$  are different numbers).

8.EE.C.7.b-Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms.

8.EE.B-Understand the connections between proportional relationships, lines, and linear equations.

**ALGEBRA 1**

9-12.A1.A-SSE.A.2-Use the structure of an expression to identify ways to rewrite it.

9-12.A1.F-IF.B.4-For linear, piecewise linear (to include absolute value), quadratic, and exponential functions that model a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; and end behavior.

9-12.A1.F-IF.B.5-Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes.

9-12.A1.F-IF.B.6-Calculate and interpret the average rate of change of a linear, quadratic, piecewise linear (to include absolute value), and exponential function (presented symbolically or as a table) over a specified interval. Estimate the rate of change from a graph.

*Danielson, 1c*

**Monday 1/22/24**

Algebra I

- Bellringer: Review Question from Module 3: Lesson 23
- We Will: Review Study Guide for Eureka Math<sup>2</sup> Module 3 Test
- Eureka Math<sup>2</sup> Module 3 Test Review
- I Will: Listen, pay attention, and ask questions on Study Guide Review

Regular Math

- Bellringer: Write Expressions
- We Will: Solve a problem about consecutive integers.
- Eureka Math<sup>2</sup> Module 4: Lesson 4: Using Linear Equations to Solve Problems
- I will: Define variables and write equations that represent a given situation.

**Tuesday 1/23/24**

Algebra I

- Bellringer: Study for Test
- We Will: Ask any questions for Eureka Math<sup>2</sup> Study Guide for Module 3 Test
- Eureka Math<sup>2</sup> Module 3 Test
- I Will: Take the Eureka Math<sup>2</sup> Module 3 Test

Regular Math

- Bellringer: Divide
- We Will: Informally show that every rational number has a decimal form that repeats or terminates.
- Eureka Math<sup>2</sup> Module 4: Lesson 5: An Interesting Application of Linear Equations, Part 1
- I Will: Use linear equations to write the fraction form of a decimal with one repeating digit.

**Wednesday 1/24/24**

Algebra I

- Bellringer: Study for Test
- We Will: Ask any questions for Eureka Math<sup>2</sup> Study Guide for Module 3 Test
- Eureka Math<sup>2</sup> Module 3 Test
- I Will: Take the Eureka Math<sup>2</sup> Module 3 Test

### Regular Math

- Bellringer: Multiply Repeating Decimals by powers of 10
- We Will: Work together to analyze how this strategy is different from what we use when all of the digits repeat.
- Eureka Math<sup>2</sup> Module 4: Lesson 6: Applications of Linear Equations, Part 2
- I will: Use linear equations to write the fraction form of any repeating decimal.

### Thursday 1/25/24

#### Algebra I

- Bellringer: Compare Speeds of Different Objects
- We Will: Represent the distance traveled by a falling object with graphs, tables, and equations.
- Eureka Math<sup>2</sup> Module 4: Lesson 1: Falling Objects
- I will: Explain why a linear function is not a good model for the distance traveled by a falling object.

#### Regular Math

- Bellringer: Study for Quiz
- We Will: Ask questions for Eureka Math<sup>2</sup> Module 4: Topic A Quiz
- Eureka Math<sup>2</sup> Module 4: Topic A (Lesson 1-6) Quiz
- I will: Take the Eureka Math<sup>2</sup> Module 4 Quiz

### Friday 1/26/24

#### Algebra I

- Bellringer: Identify Intercepts of Graphs of Functions
- We Will: Analyze the height over time of an object falling due to gravity by using tables, graphs, and equations.
- Eureka Math<sup>2</sup> Module 4: Lesson 2: Projectile Motion
- I will: Interpret different representations of functions that model projectile motion.

#### Regular Math

- Bellringer: Write Equivalent Expressions
- We Will: Identify that linear equations in one variable with infinitely many solutions are equivalent to the equation  $a=a$ .
- Eureka Math<sup>2</sup> Module 4: Lesson 7: Linear Equations with More Than One Solution
- I will: Solve linear equations in one variable that have only one solution or infinitely many solutions.

*Danielson, 2c, 3b, 3c,*

Resources/Materials: Eureka Math<sup>2</sup> Workbook/Instructional Book

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

*Danielson, 2c, 3c*