

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

TEACHER: Ashleigh Richardson

SUBJECT: Mathematics

DATE: September 11-15, 2023

GRADE: 8<sup>th</sup>

CCSS: Common Core Learning Standard(s) Addressed:

**MATH**

8.EE.A.2 - Use square root and cube root symbols to represent solutions to equations of the form  $x^2 = p$  and  $x^3 = p$ , where  $p$  is a positive rational number. Evaluate square roots of small perfect squares and cube roots of small perfect cubes. Know that  $\sqrt{2}$  is irrational.

8.EE.A.3 - Use numbers expressed in the form of a single digit times an integer power of 10 to estimate very large or very small quantities, and to express how many times as much one is than the other.

For example, estimate the population of the United States as  $3 \times 10^8$  and the population of the world as  $7 \times 10^9$ , and determine that the world population is more than 20 times larger.

8.EE.A.4 - Perform operations with numbers expressed in scientific notation, including problems where both decimal and scientific notation are used. Use scientific notation and choose units of appropriate size for measurements of very large or very small quantities (e.g., use millimeters per year for seafloor spreading). Interpret scientific notation that has been generated by technology.

**ALGEBRA 1**

A-CED.A.1 - Create equations and inequalities in one variable and use them to solve problems.

Include equations arising from linear, quadratic, and exponential functions.

A-CED.A.3 - Represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or nonviable options in a modeling context.

For example, represent inequalities describing nutritional and cost constraints on combinations of different foods.

A-REI.B.3 - Solve linear equations and inequalities in one variable, including equations with coefficients represented by letters.

*Danielson, 1c*

**Monday 9/11/23**

Algebra I

- Bellringer: Practice Problems
- We Will: Take the Eureka Math<sup>2</sup> Module 2 Pretest
- Take the Eureka Math<sup>2</sup> Module 2 Pretest (SLT)
- I will: Show my work and do my best on the Module 2 pretest.

Regular Math

- Bellringer: Write in Scientific Notation
- We Will: Operate with numbers written in standard form and scientific notation.
- Eureka Math<sup>2</sup> Module 1: Lesson 13: Applications with Numbers in Scientific Notation
- I Will: Describe what tools or strategies can help you solve problems in contexts that use numbers written in scientific notation.

**Tuesday 9/12/23**

Algebra I

- Bellringer: Truth Values
- Introduce Topic C: Compound Statements Involving Equations and Inequalities in One Variable
- We Will: Analyze with more than one condition.
- Eureka Math<sup>2</sup> Module 1: Lesson 14: Solution Sets of Compound Statements
- I Will: Write a compound statement to describe a situation.

Regular Math

- Bellringer: Convert to the Equivalent Unit of Measurement
- We Will: Choose appropriate units of measurement and convert units of measurement.
- Eureka Math<sup>2</sup> Module 1: Lesson 14: Choosing Units of Measurement
- I Will: Be able to explain why choosing an appropriate unit of measurement is important.

**Wednesday 9/13/23**

Algebra I

- Bellringer: Solve Inequalities
- We Will: Find the solution set of compound inequalities in one variable and graph the solution sets on the number line.

- Eureka Math<sup>2</sup> Module 1: Lesson 15: Solving and Graphing Compound Inequalities
- I Will: Explain how the inequality symbol impacts the graph of the solution set.

#### Regular Math

- Bellringer: Operate with Numbers Written in Scientific Notation
- We Will: Model a situation by operating with numbers in scientific notation.
- Eureka Math<sup>2</sup> Module 1: Lesson 15: Get to the Point
- I Will: Explain what types of problems benefit from using numbers in scientific notation.

### **Thursday 9/14/23**

#### Algebra I

- Bellringer: Evaluate Absolute Values
- We Will: Write absolute value equations in one variable as compound statements and solve.
- Eureka Math<sup>2</sup> Module 1: Lesson 16: Solving Absolute Value Equations
- I will: Discuss solutions to absolute value equations to refine thinking about the solution set.

#### Regular Math

- Bellringer: Practice Problems 4 (a) from Module 1: Lesson 15
- We Will: Take Eureka Math<sup>2</sup> Module 1 Topic C (Lesson 11-15) Quiz
- Review Eureka Math<sup>2</sup> Module 1 Lesson 11-15 (Practice Quiz Questions)
- Take Eureka Math<sup>2</sup> Module 1 Topic C Quiz
- I Will: Take Notes, ask questions, and take Module 1 Topic C Quiz

### **Friday 9/15/23**

#### Algebra I

- Bellringer: Graph Compound Inequalities
- We Will: Write and solve absolute value inequalities.
- Eureka Math<sup>2</sup> Module 1: Lesson 17: Solving Absolute Value Inequalities
- I Will: Solve absolute value inequalities and graph the solution set on a number line.

#### Regular Math

- Bellringer: Multiply Rational Numbers
- We Will: Recognize perfect squares from 1 to 225 and perfect cubes from 1 to 125.
- Eureka Math<sup>2</sup> Module 1: Lesson 16: Perfect Squares and Perfect Cubes
- I Will: Determine all numbers that square or cube to a given number.

*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*