

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

TEACHER: Ashleigh Richardson

SUBJECT: Mathematics

DATE: September 4-8, 2023

GRADE: 8th

CCSS: Common Core Learning Standard(s) Addressed:

MATH

8.EE.A.1 - Know and apply the properties of integer exponents to generate equivalent numerical expressions.

For example, $3^2 \times 3^{-5} = 3^{-3} = 1/3^3 = 1/27$.

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 3×10^8 and the population of the world as 7×10^9 , 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.4 - Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations.

For example, rearrange Ohm's law $V = IR$ to highlight resistance R .

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

A-REI.A.1 - Explain each step in solving an equation as following from the equality of numbers asserted at the previous step, starting from the assumption that the original equation has a solution. Construct a viable argument to justify a solution method.

Danielson, 1c

Monday 9/4/23

Algebra I

Labor Day

Regular Math

Labor Day

Tuesday 9/5/23

Algebra I

- Bellringer: Solve Proportions
- We Will: Solve equations with more than one unknown value.
- Eureka Math² Module 1: Lesson 12: Rearranging Formulas
- I Will: Have flexible thinking and find my own solution path.

Regular Math

- Bellringer: Study for Quiz
- We Will: Take Eureka Math² Module 1 Topic B (Lesson 5-10) Quiz
- Review Eureka Math² Module 1 Lesson 5-10 (Practice Quiz Questions)
- Take Eureka Math² Module 1 Topic B Quiz
- I Will: Take Notes, ask questions, and take Module 1 Topic B Quiz

Wednesday 9/6/23

Algebra I

- Bellringer: Solve One- and Two-Step Inequalities
- We Will: Solve a variety of inequalities and graph their solution sets on a number line.
- Eureka Math² Module 1: Lesson 13: Solving Linear Inequalities in One Variable
- I will: Be able to explain what it means if an inequality is sometimes true.

Regular Math

- Bellringer: Practice Problem
- We Will: Take Eureka Math² Module 2 Pretest (SLT)
- Take Eureka Math² Module 2 Pretest (SLT)
- I Will: Show my work and do my best on Module 2 pretest.

Thursday 9/7/23

Algebra I

- Bellringer: Practice Problems 1 & 3 from Module 1: Lesson 13
- We Will: Take Eureka Math² Module 1 Topic B (Lesson 7-13) Quiz
- Review Eureka Math² Module 1 Lesson 7-13 (Practice Quiz Questions)
- Take Eureka Math² Module 1 Topic B Quiz
- I Will: Take Notes, ask questions, and take Module 1 Topic B Quiz

Regular Math

- Bellringer: Order Numbers
- Introduce Topic C: Applications of the Properties and Definitions of Exponents
- We Will: Use the definitions of exponents to learn how to write and compare small positive numbers by using scientific notation.
- Eureka Math² Module 1: Lesson 11: Small Positive Numbers in Scientific Notation
- I Will: Order numbers written in scientific notation.

Friday 9/8/23

Algebra I

- Bellringer: Practice Problems 1 & 3 from Module 1: Lesson 13
- We Will: Take Eureka Math² Module 1 Topic B (Lesson 7-13) Quiz
- Review Eureka Math² Module 1 Lesson 7-13 (Practice Quiz Questions)
- Take Eureka Math² Module 1 Topic B Quiz
- I Will: Take Notes, ask questions, and take Module 1 Topic B Quiz

Regular Math

- Bellringer: Write in Scientific Notation
- We Will: Learn to operate with numbers in scientific notation by using the properties of exponents.
- Eureka Math² Module 1: Lesson 12: Operations with Numbers in Scientific Notation
- I Will: Use the properties of exponents to efficiently operate with numbers written in scientific notation.

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