

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

TEACHER: Ashleigh Richardson

SUBJECT: Mathematics

DATE: April 29 – May 3, 2024

GRADE: 8th

CCSS: Common Core Learning Standard(s) Addressed:

MATH

8.EE.C.8.c-Solve real-world and mathematical problems leading to two linear equations in two variables.

8.EE.C.8.a-Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously.

8.EE.C.8.b-Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection.

ALGEBRA 1

HSN-RN.A.1-Explain how the definition of the meaning of rational exponents follows from extending the properties of integer exponents to those values, allowing for a notation for radicals in terms of rational exponents.

HSN-RN.A.2-Rewrite expressions involving radicals and rational exponents using the properties of exponents.

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

HSF-BF.B.3-Identify the effect on the graph of replacing $f(x)$ by $f(x) + k$, $k f(x)$, $f(kx)$, and $f(x + k)$ for specific values of k (both positive and negative); find the value of k given the graphs. Experiment with cases and illustrate an explanation of the effects on the graph using technology.

HSF-LE.A.2-Construct linear and exponential functions, including arithmetic and geometric sequences, given a graph, a description of a relationship, or two input-output pairs (include reading these from a table).

HSA-REI.D.11-Explain why the x -coordinates of the points where the graphs of the equations $y = f(x)$ and $y = g(x)$ intersect are the solutions of the equation $f(x) = g(x)$; find the solutions approximately, e.g., using technology to graph the functions, make tables of values, or find successive approximations. Include cases where $f(x)$ and/or $g(x)$ are linear, polynomial, rational, absolute value, exponential, and logarithmic functions.

HSA-SSE.A.1.b-Interpret complicated expressions by viewing one or more of their parts as a single entity.

Danielson, 1c

Monday 4/29/24

Algebra I

- EOC Practice

Regular Math

- Worksheet – Facts about Kobe Bryant – Order of Operations

Tuesday 4/30/24

Algebra I

- EOC Practice

Regular Math

- Bellringer: Write Equations
- We Will: Write and solve systems of linear equations for mathematical problems.
- Eureka Math² Module 5: Lesson 11: Writing and Solving Systems of Equations for Mathematical Problems
- I Will: Answer the question, “What kind of problems can we solve by using a System of Equations”?

Wednesday 5/1/24

Algebra I

- EOC Practice

Regular Math

- Bellringer: Determine the Number of Solutions by Inspection
- We Will: Write and solve a system of linear equations given a historical situation.
- Eureka Math² Module 5: Lesson 12: Solving Historical Problems with Systems of Equations
- I Will: Observe and describe a single constraint to create a system of linear equations and solve the system.

Thursday 5/2/24

Algebra I

- EOC DAY!

Regular Math

- Solving Systems of Equations - Substitution

Friday 5/3/24

Algebra I

- Solving Systems of Equations - Substitution

Regular Math

- Bellringer: Solve Linear Equations
- We Will: Write and solve a system of linear equations given a real-world situation.
- Eureka Math² Module 5: Lesson 13: Writing and Solving Systems of Equations for Real-World Problems
- I Will: Recognize that to solve a problem with two unknowns, at least two equations are needed.

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