

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

TEACHER: Ashleigh Richardson

SUBJECT: Mathematics

DATE: March 11-15, 2024

GRADE: 8th

CCSS: Common Core Learning Standard(s) Addressed:

MATH

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.

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

ALGEBRA 1

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

HSN-Q.A.2-Define appropriate quantities for the purpose of descriptive modeling.

HSA-CED.A.2-Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.

HSA-REI.C.7-Solve a simple system consisting of a linear equation and a quadratic equation in two variables algebraically and graphically.

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.

HSS-ID.B.6.a-Fit a function to the data; use functions fitted to data to solve problems in the context of the data.

Use given functions or choose a function suggested by the context. Emphasize linear, quadratic, and exponential models.

HSA-SSE.B.3.a-Factor a quadratic expression to reveal the zeros of the function it defines.

HSA-SSE.B.3.b-Complete the square in a quadratic expression to reveal the maximum or minimum value of the function it defines.

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

HSF-IF.C.8.a-Use the process of factoring and completing the square in a quadratic function to show zeros, extreme values, and symmetry of the graph, and interpret these in terms of a context.

Danielson, 1c

Monday 3/11/24

Algebra I

- Inservice Day

Regular Math

- Inservice Day

Tuesday 3/12/24

Algebra I

- Bellringer: Study for Test
- We Will: Go over last minute questions from Study Guide for Module 4 Test
- Eureka Math² Module 4 Test (Lesson 1-26)
- I Will: Take the Eureka Math² Module 4 Test (Lesson 1-26)

Regular Math

- Bellringer: Write Equations in Slope Intercept Form
- We Will: Graph a system of linear equations to identify the solution.
- Eureka Math² Module 5: Lesson 2: Introduction to Systems of Linear Equations
- I Will: Recognize that the ordered pair representing the intersection point of the lines is the solution to the system of linear equations.

Wednesday 3/13/24

Algebra I

- Bellringer: Study for Test
- We Will: Go over last minute questions from Study Guide for Module 4 Test
- Eureka Math² Module 4 Test (Lesson 1-26)

- I Will: Take the Eureka Math² Module 4 Test (Lesson 1-26)

Regular Math

- Bellringer: Identify Slope and y-intercept.
- We Will: Recognize that a system of linear equations that represents parallel lines has no solution.
- Eureka Math² Module 5: Lesson 3: Identifying Solutions
- I Will: Analyze a system of linear equations to determine whether a solution exists.

Thursday 3/14/24

Algebra I

- Bellringer: Complete Number Sequences
- We Will: Represent sequences by using pictures, tables, equations, and graphs.
- Eureka Math² Module 5: Lesson 1: Exploring Patterns
- I Will: Recognize sequences as functions with a domain in the nonnegative integers.

Regular Math

- Bellringer: Write Equations in Slope-Intercept Form
- We Will: Recognize that a system of linear equations has only one solution, no solution, or infinitely many solutions.
- Eureka Math² Module 5: Lesson 4: More Than One Solution
- I Will: Analyze whether a system of linear equations has only one solution, no solution, or infinitely many solutions.

Friday 3/15/24

Algebra I

- Bellringer: Complete the Table of Values
- We Will: Use a recursive process to generate a sequence.
- Eureka Math² Module 5: Lesson 2: The Recursive Challenge
- I Will: Write recursive formulas to model and solve problems.

Regular Math

- Bellringer: Study for Quiz
- We Will: Review Study Guide and Ask Questions for Eureka Math² Module 5: Topic A Quiz
- Eureka Math² Module 5: Topic A Study Guide
- I Will: Listen, focus, and take notes on the Eureka Math² M5:TA Study Guide

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