

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

TEACHER: Ashleigh Richardson

SUBJECT: Mathematics

DATE: March 18-22, 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 3/18/24

Algebra I

- Bellringer: Writing Sequences
- We Will: Write recursive formulas for sequences.
- Eureka Math² Module 5: Lesson 3: Recursive Formulas for Sequences
- I Will: Explain how both formulas define this sequence.

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 Quiz
- I Will: Take the Eureka Math² Module 5: Topic A Quiz

Tuesday 3/19/24

Algebra I

- Sub Plans

Regular Math

- Sub Plans

Wednesday 3/20/24

Algebra I

- Bellringer: Evaluate Functions
- We Will: Write and explicit formula for a sequence.
- Eureka Math² Module 5: Lesson 4: Explicit Formulas for Sequences
- I Will: Write explicit formulas for sequences with an addition or multiplication pattern and use the formulas to find specific terms of the sequences.

Regular Math

- Bellringer: Solve Equations

- We Will: Solve systems of linear equations by using the substitution method to write the systems as linear equations in one variable.
- Eureka Math² Module 5: Lesson 6: Solving Systems of Linear Equations without Graphing
- I Will: Be able to answer the question, “Can we solve a system of equations without graphing? How?”

Thursday 3/21/24

Algebra I

- Bellringer: Create Descriptions of Sequences
- We Will: Explain the structure of arithmetic and geometric sequences.
- Eureka Math² Module 5: Lesson 5: Arithmetic and Geometric Sequences
- I Will: Write recursive and explicit formulas for arithmetic and geometric sequences.

Regular Math

- Bellringer: Solve Linear Equations
- We Will: Solve a system of linear equations by using the substitution method.
- Eureka Math² Module 5: Lesson 7: The Substitution Method
- I Will: Apply the multiplication property of equality as part of the substitution method.

Friday 3/22/24

Algebra I

- Bellringer: Writing Equations of Functions from Graphs
- We Will: Convert between recursive and explicit formulas for arithmetic and geometric sequences.
- Eureka Math² Module 5: Lesson 6: Representations of Arithmetic and Geometric Sequences
- I Will: Write formulas for arithmetic and geometric sequences from a graph or a real-world context.

Regular Math

- Bellringer: Solve the System of Linear Equations by Inspection
- We Will: Solve a system of linear equations by using the substitution method.
- Eureka Math² Module 5: Lesson 9: Rewriting Equations to Solve a System of Equations
- I Will: Choose a strategy to solve a system of equations by using the substitution method.

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