S. P. ARNETT MIDDLE SCHOOL

COMMON CORE ALIGNED LESSON PLAN TEMPLATE

TEACHER: Ashleigh Richardson SUBJECT: Mathematics

DATE: January 29 – February 2, 2024 GRADE: 8th

CCSS: Common Core Learning Standard(s) Addressed:

MATH

8.EE.C.7-Solve linear equations in one variable.

8.EE.C.7.a-Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form x = a, a = a, or a = b results (where a and b are different numbers).

8.EE.C.7.b-Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms.

ALGEBRA 1

9-12.A1.A-SSE.A.2-Use the structure of an expression to identify ways to rewrite it.

9-12.A1.F-IF.B.4-For linear, piecewise linear (to include absolute value), quadratic, and exponential functions that model a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; and end behavior.

9-12.A1.F-IF.B.5-Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes.

9-12.A1.F-IF.B.6-Calculate and interpret the average rate of change of a linear, quadratic, piecewise linear (to include absolute value), and exponential function (presented symbolically or as a table) over a specified interval. Estimate the rate of change from a graph.

9-12.A1.A-SSE.A.2-Use the structure of an expression to identify ways to rewrite it.

9-12.A1.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.

Danielson, 1c

Monday 1/29/24

Algebra I

- Bellringer: Create Equations to Model Scenarios
- We Will: Interpret the coefficients of a quadratic equation that models the height of a projectile as a function of time.
- Eureka Math^2 Module 4: Lesson 3: Analyzing Functions That Model Projectile Motion
- I will: Identify features of the graph of a quadratic function and interpret them in context.

Regular Math

- Bellringer: Match Equivalent Expressions
- We Will: Identify that linear equations in one variable with no solution are equivalent to the equation a = b, where a and b are different numbers.
- Eureka Math^2 Module 4: Lesson 8: Another Possible Number of Solutions
- I will: Solve linear equations in one variable that have only one solution, infinitely many solutions, or no solution

Tuesday 1/30/24

Algebra I

- Bellringer: identify Key Features of Functions
- We Will: Describe key features of the graph of a quadratic function by looking at a graph, a table, or an equation.
- Eureka Math^2 Module 4: Lesson 4: Graphs of Quadratic Functions
- I will: Graph quadratic functions given an equation of some points on the graph, deciding whether the given information is enough to sketch the graph.

Regular Math

- Bellringer: Solve Equations
- We Will: Write equations with only one solution, infinitely many solutions, or no solution.
- Eureka Math^2 Module 4: Lesson 9: Writing Linear Equations
- I will: Classify equations based on their number of solutions.

Wednesday 1/31/24

Algebra I

- Bellringer: Study for Quiz
- We Will: Ask any questions for Eureka Math^2 Study Guide for Module 4: Topic A Quiz
- Eureka Math^2 Module 4: Topic A (Lesson 1-4) Quiz
- I will: Take the Eureka Math^2 Module 4: Topic A Quiz

Regular Math

- Bellringer: Write Equations
- We Will: Work together to interpret an equation in context.
- Eureka Math^2 Module 4: Lesson 10: Using Linear Equations to Solve Real-World Problems
- I Will: Solve real – world problems by using linear equations in one variable.

Thursday 2/1/24

Algebra I

- Bellringer: Factor Out a Common Factor
- We Will: Apply the zero property to solve equations that contain factored expressions.
- Eureka Math^2 Module 4: Lesson 5: Solving Equations That Contain Factored Expressions
- I Will: Solve quadratic equations containing expressions that can be factored by removing a common factor.

Regular Math

- Bellringer: Solve the Equation.
- We Will: Choose different parameters that affect the total trip time and fine the time arithmetically.
- Eureka Math^2 Module 4: Lesson 11: Planning a Trip
- I Will: Solve real-world problems by using linear equations in one variable.

Friday 2/2/24

Algebra I

- Bellringer: Using a Tabular Model to Multiply Polynomial Expressions
- We Will: Write a quadratic equation from a verbal description and attempt to find the solution to the equation.
- Eureka Math^2 Module 4: Lesson 6: Solving Quadratic Equations by Factoring: Identities and Guess and Check.
- I Will: Solve quadratic equations by factoring using identities or by using guess and check.

Regular Math

- Bellringer: Study for Quiz
- We Will: Ask questions about the study guide.
- Eureka Math^2 Module 4: Topic B Quiz
- I Will: Take the Eureka Math^2 Module 4: Topic B Quiz

Danielson, 2c, 3b ,3c,

Resources/Materials: Eureka Math^2 Workbook/Instructional Book

1. Bellringer PDF
2. Other materials embedded in daily lesson/activity plan

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