

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

TEACHER: Ashleigh Richardson

SUBJECT: Mathematics

DATE: October 23-27, 2023

GRADE: 8th

CCSS: Common Core Learning Standard(s) Addressed:

MATH

8.G.A.2-Explain that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of rotations, reflections, and translations; given two congruent figures, describe a sequence that exhibits the congruence between them. (Rotations are only about the origin and reflections are only over the y-axis and x-axis in Grade 8.)
8.G.A.5-Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles.

For example, arrange three copies of the same triangle so that the sum of the three angles appears to form a line, and give an argument in terms of transversals why this is so.

ALGEBRA 1

9.A2.A-REI.C.6-Solve systems of linear equations exactly and approximately (e.g., with graphs), limited to systems of at most three equations and three variables. With graphic solutions, systems are limited to two variables.

9.A1.A-REI.C.6-Solve systems of linear equations exactly and approximately (e.g., with graphs), focusing on pairs of linear equations in two variables.

9.A1.A-REI.D.12-Graph the solutions to a linear inequality in two variables as a half-plane (excluding the boundary in the case of a strict inequality), and graph the solution set to a system of linear inequalities in two variables as the intersection of the corresponding half-planes.

Danielson, 1c

Monday 10/23/23

Algebra I

- Bellringer: Write Equations in Two Variables
- We Will: Learn how to apply systems of equations to real-world contexts.
- Eureka Math² Module 2: Lesson 11: Applications of Systems of Equations
- I Will: Investigate contextual problems that can be solved by creating and solving systems of linear equations.

Regular Math

- Bellringer: Identify the Image
- We Will: Describe a sequence of rigid motions that maps one figure onto a congruent figure.
- Eureka Math² Module 2: Lesson 10: Congruent Figures
- I Will: Understand that descriptions of sequences are clearest when figures share a point or segment.

Tuesday 10/24/23

Algebra I

- Bellringer: Graph Linear Inequalities in the Coordinate Plane
- We Will: Identify the intersection of two half-planes.
- Eureka Math² Module 2: Lesson 12: Solution Sets of Systems of Linear Inequalities
- I Will: Graph a system of linear inequalities in two variables.

Regular Math

- Bellringer: Identifying Corresponding Parts of Figures
- We Will: Show figures are congruent by describing a sequence of rigid motions that maps one figure onto the other.
- Eureka Math² Module 2: Lesson 11: Showing Figures Are Congruent
- I Will: Create my own pattern with sequences of rigid motions and describe.

Wednesday 10/25/23

Algebra I

- Bellringer: Graph Linear Inequalities in Two Variables
- We Will: Graph more complex systems of linear inequalities.
- Eureka Math² Module 2: Lesson 13: Graphing Solution Sets of Systems of Linear Inequalities
- I will: Explain how solution sets of linear equations are the same as or different from those of linear inequalities.

Regular Math

- Bellringer: Study
- We Will: Go over questions from Study Guide
- Eureka Math² Module 2: Topic B Quiz
- I Will: Take the Eureka Math2 Module 2: Topic B Quiz

Thursday 10/26/23

Algebra I

- Bellringer: Graph Linear Inequalities in Two Variables
- We Will: Learn how to write and solve systems of linear inequalities in context.
- Eureka Math² Module 2: Lesson 14: Applications of Systems of Linear Inequalities
- I Will: Use systems of inequalities to solve contextual problems.

Regular Math

- Bellringer: Linear Pairs
- We Will: Use rigid motions to establish facts about the angles created when one line crosses two other lines.
- Eureka Math² Module 2: Lesson 12: Lines Cut by a Transversal
- I Will: Recognize that there are more pairs of congruent angles when parallel lines are cut by a transversal.

Friday 10/27/23

Algebra I

- Bellringer: Study
- We Will: Go over questions from study guide.
- Eureka Math² Module 2: Topic B Quiz
- I Will: Take the Eureka Math2 Module 2: Topic B Quiz

Regular Math

- Bellringer: Angles at a Point
- We Will: Use rigid motions to establish facts about the angles created when one line crosses two other lines.
- Eureka Math² Module 2: Lesson 13: Angle Sum of a Triangle
- I Will: Use informal arguments to verify that the sum of the interior angle measures of a triangle is 180 degrees.

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