

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

TEACHER: Ashleigh Richardson

SUBJECT: Mathematics

DATE: November 6-10, 2023

GRADE: 8th

CCSS: Common Core Learning Standard(s) Addressed:

MATH

8.G.B.6-Explain a proof of the Pythagorean Theorem and its converse.

8.G.B.7-Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions.

8.G.B.8-Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.

ALGEBRA 1

HSS-ID.B.6-Represent data on two quantitative variables on a scatter plot, and describe how the variables are related.

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.

HSS-ID.B.6.b-Informally assess the fit of a function by plotting and analyzing residuals.

HSS-ID.B.6.c-Fit a linear function for a scatter plot that suggests a linear association.

HSS-ID.C.7-Interpret the slope (rate of change) and the intercept (constant term) of a linear model in the context of the data.

HSS-ID.C.8-Compute (using technology) and interpret the correlation coefficient of a linear fit.

HSS-ID.C.9Distinguish between correlation and causation.*Danielson, 1c*

Monday 11/6/23

Algebra I

- Bellringer: Calculate and Interpret Differences
- We Will: Interpret residuals.
- Eureka Math² Module 2: Lesson 18: Calculating and Analyzing Residuals
- I Will: Calculate residuals for a set of data.

Regular Math

- Bellringer: Study for Quiz
- We Will: Go over any questions that you have from the Study Guide
- Eureka Math² Module 2: Topic C Quiz (Lesson 12 to 16)
- I Will: Take the Eureka Math² Module 2: Topic C Quiz

Tuesday 11/7/23

Algebra I

- Bellringer: Calculate Residuals
- We Will: Learn how to make sense of information obtained by analyzing residuals.
- Eureka Math² Module 2: Lesson 19: Analyzing Residuals
- I Will: Observe and interpret patterns in residual plots of data.

Regular Math

- Bellringer: Solve the Equation
- We Will: Explain a proof of the Pythagorean theorem.
- Eureka Math² Module 2: Lesson 17: Proving the Pythagorean Theorem
- I Will: Complete a puzzle that is a visual representation of the Pythagorean theorem.

Wednesday 11/8/23

Algebra I

- Bellringer: Analyze Associations
- We Will: Use technology to determine the value of the correlation coefficient for a given bivariate data set.
- Eureka Math² Module 2: Lesson 20: Interpreting Correlation
- I Will: Explain what the correlation coefficient reveals about the association between two quantitative variables.

Regular Math

- Bellringer: Evaluate the Expression
- We Will: Explain a proof of the converse of the Pythagorean theorem.
- Eureka Math² Module 2: Lesson 18: Proving the Converse of the Pythagorean Theorem

- I Will: Continue my reasoning to prove the converse of the Pythagorean theorem.

Thursday 11/9/23

Algebra I

- Bellringer: Study
- We Will: Go over any questions from Study Guide Module 2: Topic C
- Eureka Math2 Module 2: Topic C Quiz (Lesson 15-21)
- I will: Take Eureka Math2 Module 2: Topic C Quiz

Regular Math

- Bellringer: Solve Equations
- We Will: Apply the converse of the Pythagorean Theorem to determine whether a triangle is a right triangle.
- Eureka Math² Module 2: Lesson 19: Using the Pythagorean Theorem and Its Converse
- I Will: Use the Pythagorean Theorem to find unknown side lengths of right triangles.

Friday 11/10/23

Algebra I

Veteran's Day – No School

Regular Math

Veteran's Day – No School

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