

EMS ISD Distance Learning: April 6-17, 2020

High School Math CHOICE BOARD

Instructions: Select 1-2 activities each week. Be creative! You may use paper, pencils, art supplies, technology apps, or any other materials you have at home to present your ideas.

Algebra 1

April 6-10: 8(a) Factoring to solve quadratic equations

April 13-17: 8(a) Quadratic Formula to solve quadratic equations

Geometry

April 6-10: 11(b) Areas of parallelograms and triangles

April 13-17: 11(b) Areas of trapezoids, rhombi, and kites

Algebra 2

April 6-10: 7(f) Multiplying and dividing rational expressions

April 13-17: 7(f) Adding and subtracting rational expressions

Precalculus

April 6-10: 2(f) Graphing polynomial functions

April 13-17: 2(f) Introduction to rational functions

Math Models

April 6-10: 9(b) Using central tendency and variability to make inferences

April 13-17: 8(a) Analyzing data to calculate the probability of an event

Algebraic Reasoning

April 6-10: 3(b) Graphs and attributes of functions and their inverses

April 13-17: 3(c) Finding inverses algebraically

Advanced Quantitative Reasoning

April 6-10: 3(e) Graphing step functions

April 13-17: 3(e) Writing and graphing piecewise functions

College Prep Math

April 6-10: Solving absolute value equations and inequalities

April 13-17: Defining and solving systems of equations

TECHNOLOGY Connections

Find or create a problem from this week's lesson concept(s) that can be solved using a technology tool or app. Create a short video with voice or a printed instruction sheet with diagrams to demonstrate how to solve the problem with the tool/app.

MATHEMATICAL Connections

Identify a real-world scenario related to this week's lesson concept(s). Create at least two representations that communicate that same scenario, and show/explain how those representations connect to each other. You may use pictures, models, real objects, graphs, tables, equations, and written descriptions.

LITERARY Connections

Create a crossword puzzle related to this week's lesson concept(s). Include 8-10 hints (include both Across and Down), the crossword puzzle layout, and the answer key (completed puzzle). Or, create an acrostic for the topic you studied this week. The first letters written vertically should spell a topic or term from your learning, and each horizontal line of text should be a phrase or sentence that elaborates on the topic/term.

FINE ARTS Connections

Create a gallery of drawings or photos related to this week's lesson concept(s). Include 3-5 images. Below each image, include a name/title and a sentence or two that communicates how it relates to what you are studying this week.

VISUAL Connections

Design a one-pager to summarize this week's lesson concept(s). Include:
Border: symbolic colored border that FRAMES your understanding.
Title: Title that reflects the content and makes it STAND out.
Illustration: A central focus. Be creative in how you illustrate your understanding.
Hashtag: A one- or two-word #hashtag to narrow down topic.
Reflection: A summary and how this can be utilized. (3-5 sentences)

REINFORCEMENT and EXTENSION

Explore something new or go deeper into what you already know by visiting online resources such as:

Khan Academy <https://www.khanacademy.org/>
 Math is Fun <https://www.mathsisfun.com/>
 Cool Math <https://www.coolmath.com/>
 Virtual Nerd <https://www.virtualnerd.com/>

Need graphing technology on your home device?
 Desmos <https://www.desmos.com/calculator>
 Geogebra <https://www.geogebra.org/graphing>