

EMS ISD Distance Learning: May 4-15, 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

May 4-8: 9(c) Representing growth and decay as exponential functions
 May 11-15: 9(d) Graphing exponential functions

Geometry

May 4-8: 11(c) Finding surface area of pyramids and cones
 May 11-15: 11(c,d) Finding surface area and volume of spheres

Algebra 2

May 4-8: 7(e) Factoring using sums and differences of cubes
 May 11-15: 7(c) Using synthetic division

Precalculus

May 4-8: 5(i) Model and solve exponentials
 May 11-15: 2(g) Introducing logarithmic functions

Math Models

May 4-8: 3(a) Generating tables to display loan amortizations
 May 11-15: 3(a) Using technology to create amortization models

Algebraic Reasoning

May 4-8: 5(d,e) Writing systems of linear equations
 May 11-15: 5(d,e) Solving systems of linear equations by graphing

Advanced Quantitative Reasoning

May 4-8: 3(h) Using a TVM calculator to solve problems
 May 11-15: 3(h) Using a TVM calculator to solve problems

College Prep Math

May 4-8: Solving equations with roots
 May 11-15: Performing operations with complex numbers

ARTS & ENTERTAINMENT Connections

Read a book or watch a movie or TV series that relates to this week's concept or mathematics in general. Create a poster or video advertisement recommending the book, movie, or series with highlights to attract reader/viewers.

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

Design a Frayer Model for a vocabulary term that was new to you or was most important during this week's learning. Include the term in the center and the meaning, facts/characteristics, examples, and nonexamples in the four sections around it. Write a few sentences reflecting on how using the model helped you understand the vocabulary term.

REAL-WORLD Connections

Create an appealing cover for a textbook or review book on this week's topic. Be creative with designs and styles. Include a title, the author (your name), and at least three images related to your topic's application in the real world – nature, business, art, sports, etc.
OR Write a one-page summary describing the elements you would include in a cover.

VISUAL Connections

Design a Thinking Map related to a concept from this week's lesson. Choose from one of the following types:

 Circle, Bubble, Double Bubble, Tree Flow, Multi-flow, Brace, Bridge

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>