**High School Math Summer School Enrichment.**

Math Enrichment topics: <http://mathwire.com/archives/enrichment.html#number>

1. **Number & Operations:** These activities support student development of number sense and the concept of mathematical operations: <http://www.dailysudoku.co.uk/sudoku/kids/>

2. Global Problem Solvers – The Series

<https://www.sciencebuddies.org/blog/global-problem-solvers-series-videos?from=Newsletter#season1full>

<https://www.sciencebuddies.org/blog/global-problem-solvers-series-videos?from=Newsletter#season2full><https://www.vivifystem.com/>   Read about the creators of this site!! STEM lessons tend to be geared for K-8 (hard to find HS), but the high school kids never know the difference and are just as engaged as a 4th grader would be. Probably because the activities are new to them and break away from the traditional form of learning.

<https://www.youtube.com/user/crashcourse/playlists> This is a list of all the Crash Course upper level topics.

<https://www.youtube.com/user/crashcoursekids/playlists> Crash course more for 8th grade and below.....I still show some of these however

<https://www.youtube.com/user/Kurzgesagt/videos>  For a look at some interesting ideas

<https://www.youtube.com/user/mathantics/playlists>  All math, but not overly boring

3. The US 2020 Census is very important and is being conducted now. Census in Counties - Describing and Comparing Histograms to Understand American Life.

Learning Objectives

* Students will be able to analyze data and describe data distributions.
* Students will be able to understand skewness and how it affects the mean and median.
* Students will be able to determine the direction of skewness from a distribution’s mean and median.

Students will be able to understand the impact of outliers on the standard deviation and interquartile range.

<https://www2.census.gov/programs-surveys/sis/activities/math/hm-1_student.pdf>

4. Just for fun Stuff:

1. Mystery Math Game: <https://education.jlab.org/mysterymath/>

2. Top Quark Game: <https://education.jlab.org/topquarkgame/>

3. Place Value Game: <https://education.jlab.org/placevalue/>

4. Nim Number Game: <https://education.jlab.org/nim/>

5. Cool Math Skill Games: <https://www.coolmathgames.com/1-skill-games>