

SUMMER ENRICHMENT PROJECT

As you've watched the updates of data during this pandemic, you should have noticed all of the mathematical connections in the charts and graphs. In this project you will be challenged to do your own data analysis. Based on your mathematical data, you will make predictions and conclusions about the trends you observe.

WEEK ONE

Use the data on the following website:

<https://www.worldometers.info/coronavirus/country/us/#sources-historical>

On the page listed under updates, click on view more news and go back to March 14 and make a table of the number of new cases from March 14th to March 30th. Your table should be a poster of any size with the appropriate labels.

Questions to answer: Does the data show an increase or a decrease in the number of cases? What does the data regarding the number of new cases indicate? Do you feel the shelter in place order was necessary, why or why not?

WEEK TWO

Use the same website to create a table that spans from April 1st to April 15th. If possible, create a powerpoint that includes your table and the answers to the following questions:

Does the data show an increase or a decrease in the number of cases? What does the data regarding the number of new cases indicate? Do you feel the shelter in place order was effective, why or why not?

WEEK THREE

Use your table from week 1 to determine an appropriate exponential regression equation. Follow the instructions of the following website to create your exponential equation.

<https://mathbits.com/MathBits/TISection/Statistics2/exponential.htm>

Use your equation to make a prediction of what the number of new infections would be on July 4th.

For a TI-84 online calculator use the following website. Be sure to begin the test which has a built in TI-84.

<https://nj.testnav.com/client/index.html#login?username=LGN460617361&password=KR6NADF2>

WEEK FOUR

Use your table from week 2 to determine an appropriate exponential regression equation.

Use your equation to make a prediction of what the number of new infections would be on July 4th.

Write a report comparing the predictions from the two time spans. Include your opinions on how the shelter in place impacted the July 4th projections.