

WARNING: This assignment is about the current pandemic. The video talks about infection rates and death rates due to the virus.

Instructions: You must use complete sentences and proper grammar. Please type your responses and upload to webcampus as either a word, pages, or PDF file. Read all the questions before you watch the video. This is worth 2pts added to your final course average.

1. Watch the following video: How Math Predicts the Coronavirus Curve
2. How is calculus used in the video?
3. Do you think that now taking calculus your understanding of the math behind the pandemic and subsequent quarantine is better than it would have before knowing calculus? Could you use your mathematical knowledge to explain this to other people who have never taken calculus before? Explain.
4. What assumption(s) does the scientist make when creating these models? *I noticed a big one right before the 10 minute mark. He even uses the word "assume".* Why is this assumption a big deal here, in the coronavirus model.
5. The video talks about using a *Logarithmic Scale*. There are other types of applications that use logarithmic scale. Google it and see. Find an application that is related to your major and tell me about it. Also tell me why it is related to your major and don't forget to tell me your major. If you can't find one close to your major or are undecided, write about the one that seem most interesting to you and tell me why you picked it.