

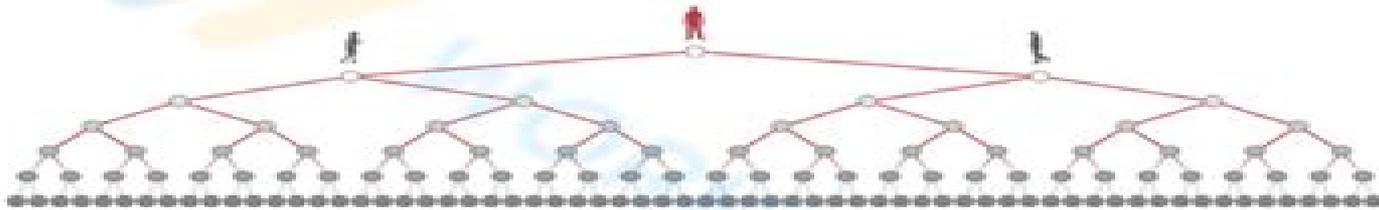
**The Math of Ending the Pandemic: Exponential Growth and Decay**  
**Questions With Answers**  
Lesson Plan by Dashiell Young-Saver  
*The New York Times Learning Network*

In this lesson, students will explore how the mathematical concepts of exponential growth and decay help to explain the spread and slowdown of the coronavirus.

**Warm-Up**

Look closely at the graph below, which is from a prior [“What’s Going On in This Graph?” activity](#).

Coronavirus Chain of Transmission



This tree diagram shows a potential coronavirus chain of transmission. Each dot represents an infected person. One infected person (the person at the top of the diagram) spreads the coronavirus to others, who then spread it to others and so on.

After looking closely at the graph above (or at this [full-size image](#)), answer these four questions. The questions are intended to build on one another, so try to answer them in order:

- What do you notice?
- What do you wonder?
- What impact does this have on you and your community?
- What’s going on in this graph? Write a headline that captures the graph’s main idea.

# Exponential Growth Questions And Answers

**G Psacharopoulos**



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