

- 2. One **virus** makes copies in a cent. The copies destroy the cent ofget out. **I copies = 50 to**
- 3. Viruses do not live without a host cell and do not use food. Bacteria do and do.
- 4. The graphs for <u>people infected with a the COVID-19 virus</u> look about like this, but on a larger scale. 1 person infects another = 2. The problem is that 1 person can infect many!

Use the graph:

- __1. This graph was made to show growth of a Bacteria Population over time. The scientist started with 5 bacteria and measured the time in minutes.
- ___2. How many hours were recorded? ______
- __3. The population rises and then falls. Four possible reasons are given below. Write one short explanation why each reason might cause the fall.
 - a) Crowding _____
 - b) Waste buildup ______
 - c) Addition of Antibiotic _____
 - d) Temperature change _____
- 4. <u>Draw vertical lines</u> on the graph and then estimate the population at

about 100 minutes? _____ 200 minutes? _____ 300 minutes? _____

5. Label the graph axes (?'s) for **Bacteria. Add COVID Infected ?** for y-axis.. Note: For the COVID-19 graph, the units depend on the area, so add question marks (?).. Examples: X-Axis = COVID-19 Infected Population in 100's of people. Y-axis = Time in Days

___6. Use the Chart → to show the population of bacteria to 300 minutes as IF no bacteria had died. Or, IF the COVID-19 is not controlled

Start with 5 bacteria and assume that each reproduces (divides) every 30 minutes.

___7. Use your data to add a line to the above graph. ----X----Use a ruler to extend the graph until you run out of room. Add notes for anything that doesn't fit. Better yet. Add paper!!





COVID-19 Viruses Yellow Electron Microscope 5000X ? Newscientist.com

