

# Evolution and Selection

What mechanisms lead to changes in the diversity of species on Earth?

## Why?

People make choices by selecting options they like best. The natural world also “selects” (although not as a conscious decision) when environmental conditions allow organisms with a particular genetic trait to live healthier lives than other organisms. In this activity, we will explore how selection affects populations over time.

## Model 1 – Desktop Swab Results



1. What is the source of the bacteria in the culture tube in Model 1?
2. How many genetic variants of *E. coli* were present in the culture from the initial swab?
3. What variants of *E. coli* are found on the dish grown without triclosan?
4. Refer to the dish in Model 1 with the medium that included triclosan.
  - a. What variants of *E. coli* are found on the dish grown with triclosan?
  - b. What likely happened to the other variants of *E. coli* on the dish with the medium containing triclosan?
5. Based on its effect on *E. coli*, why is triclosan used as a cleaning agent?
6. Suppose the desktop swabbed earlier was cleaned with a solution containing triclosan. Would living *E. coli* remain? Support your answer.
7. Suppose the desktop was swabbed again after cleaning it with triclosan over a 9-month school year. When the sample was cultured only variant S was seen.
  - a. What characteristic does the variant S bacteria have that allows it to remain on the desktop even after several months of treatment with triclosan?
  - b. Is it likely that the bacteria in the new swab were on the desk 9-months ago, or are they offspring of the original bacteria?
  - c. Propose an explanation for the presence of only variant S on the desktop after so much time.

# Pogil Evolution And Solution Answerkey

**Rosina Ehmann**



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