

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.

Evolution And Selection Pogil Answers

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Evolution And Selection Pogil Answers:

Whispering the Strategies of Language: An Psychological Journey through **Evolution And Selection Pogil Answers**

In a digitally-driven earth wherever screens reign supreme and quick connection drowns out the subtleties of language, the profound strategies and emotional subtleties concealed within phrases usually get unheard. However, nestled within the pages of **Evolution And Selection Pogil Answers** a interesting literary value blinking with raw feelings, lies an exceptional journey waiting to be undertaken. Penned by an experienced wordsmith, that wonderful opus invites visitors on an introspective trip, gently unraveling the veiled truths and profound affect resonating within the very cloth of each word. Within the mental depths of this emotional review, we shall embark upon a sincere exploration of the book is core styles, dissect their fascinating writing design, and succumb to the strong resonance it evokes heavy within the recesses of readers hearts.

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