

1. Could Mouse 1 just simply try really hard, eat all his vegetables, and grow bigger ears overnight? Why/why not?
  
2. Explain how the mice species got bigger ears over the course of time.
  
3. Mouse 4 *heard* the owl! Why didn't he survive?
  - a. *Come up with a term to describe this process:* mouse 4 had an exaggerated trait, he didn't survive because of it, and therefore he won't pass that trait on to future mice generations.
  
4. From this video, we learned that adaptations happen over the span of **generations!!!** What is a "generation" and how long is it?
  - a. (*Hint: How might your answer to "how long it is" change depending on the animal you're considering?*)
  - b. Make your best estimate of a generational timeline for each of the following: Mice, Deer, Humans, Fruit fly, Bacteria. **E.g.** "New generations of **mice** are born every   #   **seconds/minutes/hours/days/weeks/months/years...**"
  
5. **Super Thinker Bonus Question:** Have you ever had strep throat or an ear infection and gotten medicine from your doctor to cure it? Did your doctor explain how important it is to take every single pill prescribed, *even if you start to feel better before you've finished them all?*

Bacteria was causing the infection, and the pills you got were "antibiotics." As antibiotics work, they weaken and kill the bacteria causing the infection.

**Connect the dots between why it's important to finish all the antibiotics you're prescribed, and the generational timeline of a bacteria.**