

CHANGES TO LIFE OVER TIME

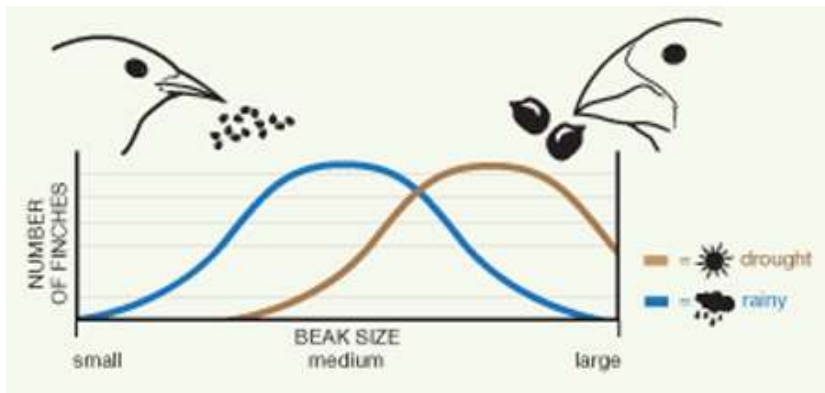


Glue this side into your notebook



Reproduction	Sexual	Asexual
What is it?		
Advantages for the survival of the species		
Disadvantages to the survival of the species		

Evolution - When a parent can survive in the environment and reproduce successfully, they pass on those **traits** (features) that helped them survive to their **offspring** (babies). Those traits help them survive in their environment, reproduce, and pass on that trait to their offspring, and so on. If the environment changes, the species needs to have traits that let them survive and reproduce. **Natural selection** (the process that lets the traits best for the environment get passed down through the species' offspring) allows for those that can survive to do so and this is how the species can change over time. If this doesn't happen successfully, the species can't survive and it goes **extinct**. 99% of all things that have been alive on Earth have gone extinct!

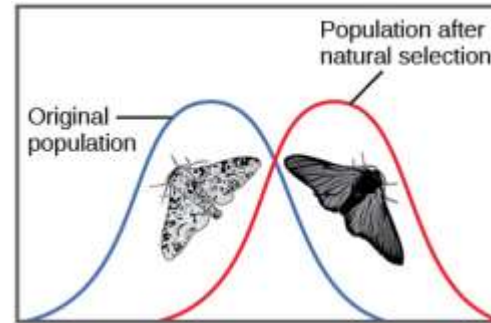


What are the different features that the birds can have?

What happened to the size of the birds' beaks from the rainy season to a drought?

What does this graph show about how the changes to the environment affected the features of the birds?

What would happen to the birds if there were many droughts in a row?



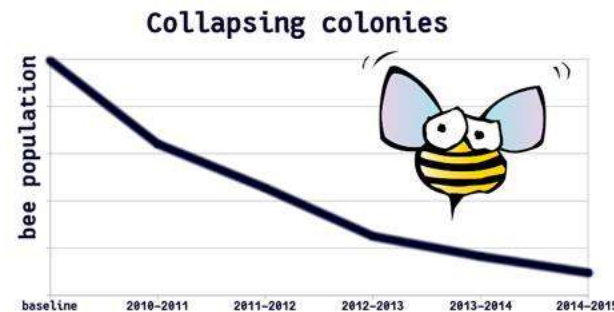
Light-colored peppered moths are better camouflaged against a pristine environment; likewise, dark-colored peppered moths are better camouflaged against a sooty environment. Thus, as the Industrial Revolution progressed in nineteenth-century England, the color of the moth population shifted from light to dark.

What are the different features that the moths can have?

What happened to the colors of the moths from the original population to the population after natural selection?

What does this tell us about how the changes to the environment affected the features of the moths?

What would happen to the moths if the environment became clean again?



What do you predict will happen to bees based on the data?