

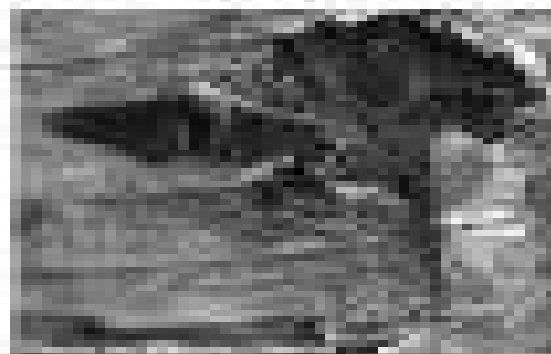
Name _____

Date _____

Student Exploration: Natural Selection

Background: Biological evolution, the change in the heritable characteristics of biological populations over successive generations, is a central concept in biology.

Key Knowledge: Organisms have different traits that help them survive.



The **organism's traits** (physical features) are a combination of genes inherited from both parents. A trait is a characteristic that is passed on from one generation to the next through genes. Some traits are helpful, some are harmful, and some are neutral.

1. Which trait do you think would be passed on to the next generation?

Dark color trait? **Yes, dark color trait**

2. Which trait do you think would be passed on to the next generation?

Light color trait? **Yes, light color**

Key Question:

How would the dark-colored bird's offspring change over time if it is not surrounded by predators? How would the light-colored bird's offspring change over time if it is not surrounded by predators? What do you think would happen if the population of birds kept growing in an area with no predators?

How many birds did you have?

1. How would the dark-colored bird's offspring change over time if it is not surrounded by predators? How would the light-colored bird's offspring change over time if it is not surrounded by predators?

2. How many dark birds did you have? **1**

3. How many light birds did you have? **1**

4. **Conclusion:** How does the population change over time if there are no predators? How does the population change over time if there are predators?

Key Question: How would the dark-colored bird's offspring change over time if it is not surrounded by predators? How would the light-colored bird's offspring change over time if it is not surrounded by predators?

Yes, dark color trait

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L Cohen



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