

# Poke, Crack, or Scoop

**Objectives:**

Students will determine the relationship between adaptations and survival.

Students will identify environmental interactions.

Students will predict survival rates based on adaptations.



**Materials:**

Marbles, raisins, washers, spoon, clothes pin, toothpick

**Procedure:**

1. You are a hungry bird. Your bill is adapted for eating certain kinds of food.
2. Using only your beak, get as much food as you can before the other birds eat it all.
3. Keep track of what you eat and how much you eat.
4. Your first feast will be the marbles. You may eat for only 10 seconds.
5. Your second feast is washers. Again, you have only 10 seconds to eat.
6. Your last meal is raisins. See how many you eat in 10 seconds.

**Results:**

1. What kind of beak did you have?

2. Data Collection:

Meals	Marbles	Washers	Raisins
1			
2			
3			

3. Which food(s) was your beak best adapted for eating?

4. For which food was there the most competition?

5. For which food was there the least competition?
6. If the only food was marbles, would you survive? Explain.
7. How are the environment, food, and beak shape related? How do you know?

