



Making a Prediction—What Do You Think?

Which beak will pick up the most different kinds of food?

Make a prediction on your own about the question.

- Use the information from the story about Mr. Brown's class and what you know about birds to make your prediction.
- Explain your prediction.

Write your prediction in the box below.

I think that the tweezers will pick up the most different types of food because I think that it will be able to hold many types of food, such as worms and grain. Also, It can pick up things to build a nest, such as twigs and things that humans leave behind.

DO NOT GO ON.

STOP



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- Explain your prediction.

Write your prediction in the box below.

I think the beak that is sharp
which is the tweezers.

the tweezers will pick up the
most thing because it can
pick up everything

The tweezers will pick up the most things that are
in the cup.

DO NOT GO ON.

STOP

Making a Prediction—What Do You Think?

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Make a prediction on your own about the question.

- Use the information from the story about Mr. Brown's class and what you know about birds to make your prediction.
- Explain your prediction.

Write your prediction in the box below.

I think the bird that is eating out of the bird feeder will pick up most food because the Robins have a big beak. They also have lots of room in their mouth.

I think the tweezer beak will pick up the most food materials because it can get a good grip on most of the materials.

I think the spoon will pick up the most because the tweezers when it picks up the glass it will just slip out and you can't stab the glass with the toothpick so that leaves the spoon.

I think the spoon beak will pick up the most

Grade 4 Inquiry Task

Directions:

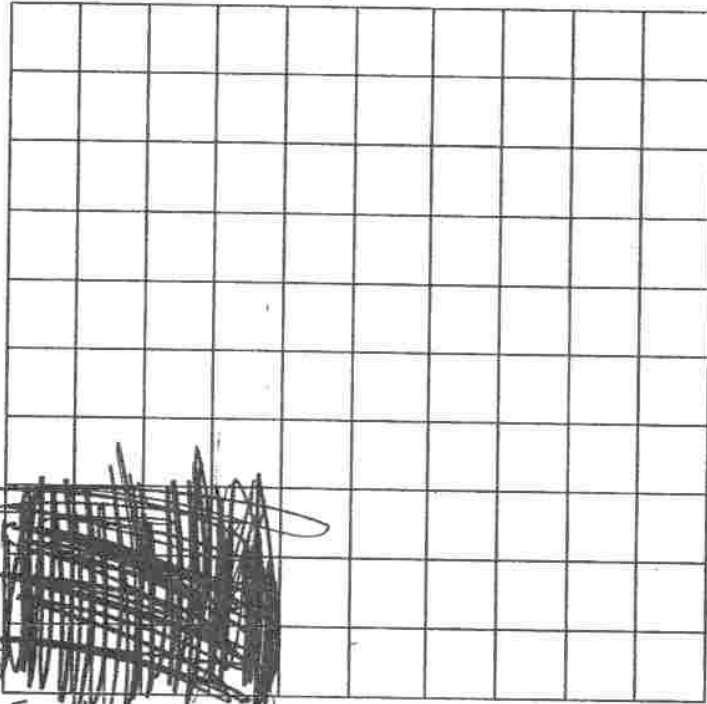
Students should perform work in the Task Booklet before answering questions 11 through 17.

- 11 Use the data you collected to graph the number of each food item you picked up with the tweezers. Be sure to title your graph.

Title:

the graugh

Number of Food Items



Kind of Food

seeds
worms
leaves
insects

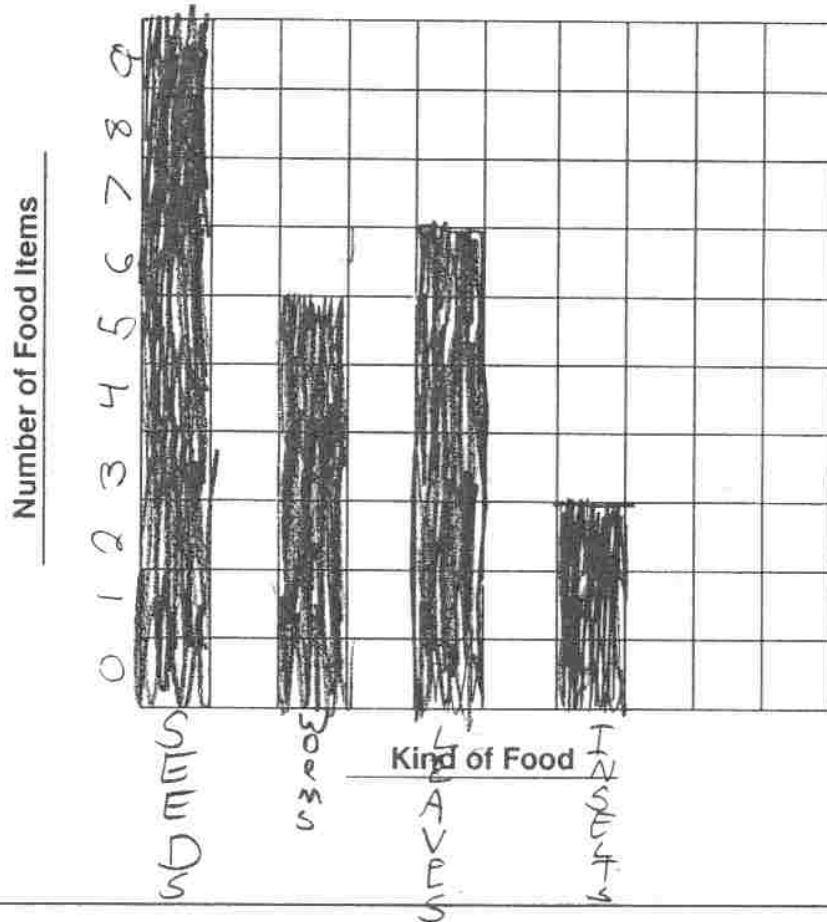
Grade 4 Inquiry Task

Directions:

Students should perform work in the Task Booklet before answering questions 11 through 17.

- 11 Use the data you collected to graph the number of each food item you picked up with the tweezers. Be sure to title your graph.

Title: Pointy Bird Beaks



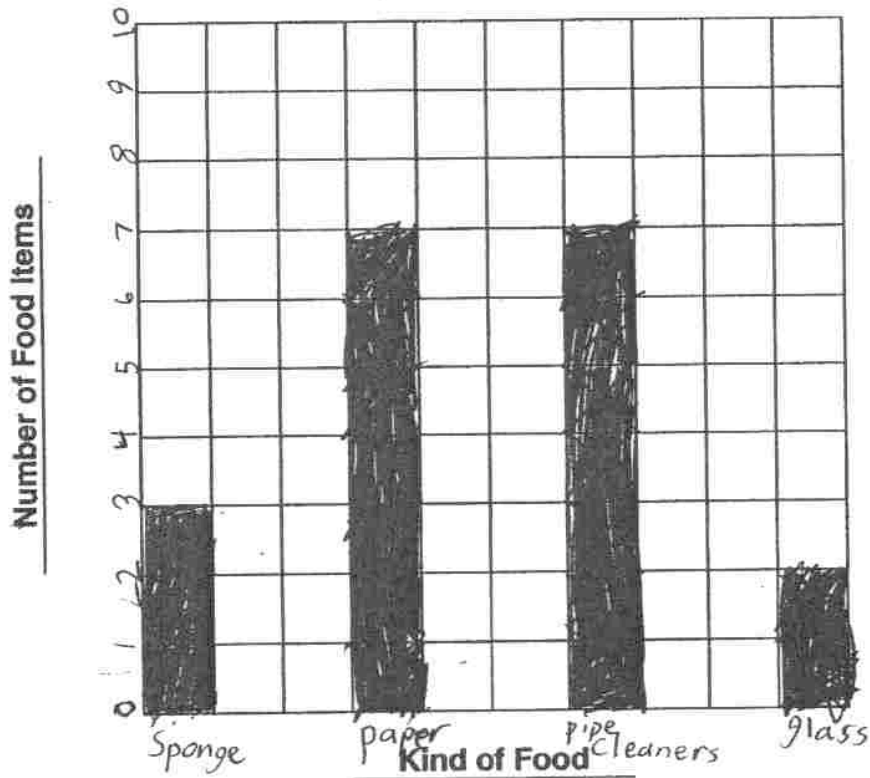
Grade 4 Inquiry Task

Directions:

Students should perform work in the Task Booklet before answering questions 11 through 17.

- 11 Use the data you collected to graph the number of each food item you picked up with the tweezers. Be sure to title your graph.

Title: Kind of food picked up with tweezers



Analyzing and Using Your Results

Directions:

Use the data from your investigation to answer questions 12 through 15.

12 How many different kinds of food did you pick up with the **tweezers**?

4 different kinds of food

How many different kinds of food did you pick up with the **spoon**?

4 different kinds of food

How many different kinds of food did you pick up with the **toothpick**?

1 different kinds of food

13 a. Which type of bird beak was able to pick up the most different kinds of food? Use your data to explain your answer.

the tweaver was the beak that picked up the most food because it could trap the food

b. Which bird beak(s) picked up the fewest kinds of food? Use your data to explain your answer.

the toothpick was the beak with the fewest food because it couldn't trap the food

Analyzing and Using Your Results

Directions:

Use the data from your investigation to answer questions 12 through 15.

12 How many different kinds of food did you pick up with the tweezers?

4 different kinds of food

How many different kinds of food did you pick up with the spoon?

4 different kinds of food

How many different kinds of food did you pick up with the toothpick?

3 different kinds of food

13 a. Which type of bird beak was able to pick up the most different kinds of food? Use your data to explain your answer.

The spoon was able to pick up the most kinds of food because of the ditch on it. Many things could go on it without falling off, such as marbles and pipecleaner. The spoon picked up 23 items in all.

b. Which bird beak(s) picked up the fewest kinds of food? Use your data to explain your answer.

The toothpick picked up the least types of food because it couldn't go through very many things. I was successful with the sponges, marbles, and leaves, but not with the pipecleaner (I got the marbles by balance.) The toothpick picked up 9 items in all.

- 14 a. Look at your prediction on page 5 in your Task Booklet. Now look at your data. Did your data support what you thought about what the shape of a bird's beak tells you about the kind of food it can eat?

Yes

No

- b. Explain how your data and observations did or did not support your prediction.

it did support our prediction

- 15 Use what you learned in your investigation and what you know about what birds eat to explain how the shape of a bird's beak affects its survival.

It ^{did not} affected the beak because it could be picked up.

Birds, Beaks, and Survival

- 14 a. Look at your prediction on page 5 in your Task Booklet. Now look at your data. Did your data support what you thought about what the shape of a bird's beak tells you about the kind of food it can eat?

Yes

No

- b. Explain how your data and observations did or did not support your prediction.

My data supported my prediction (tweezers) and the spoon because I got the same numbers of items with both of them.

- 15 Use what you learned in your investigation and what you know about what birds eat to explain how the shape of a bird's beak affects its survival.

The bird with the toothpick-shaped beak would probably eat bark and insects. The bird with the spoon-shaped beak would eat everything; same with the bird with the tweezer-shaped beak.

- 14 a. Look at your prediction on page 5 in your Task Booklet. Now look at your data. Did your data support what you thought about what the shape of a bird's beak tells you about the kind of food it can eat?

Yes

No

- b. Explain how your data and observations did or did not support your prediction.

My data and observations did support my prediction because my prediction says that the tweezers would pick up the most but in my data it was close to picking up the most.

- 15 Use what you learned in your investigation and what you know about what birds eat to explain how the shape of a bird's beak affects its survival.

I learned that if a bird has a different kind of beak it has to eat a certain type of food. If a bird's beak cannot pick up anything it cannot eat anything.

Planning a New Investigation

Mr. Brown's class wants to learn more about the birds in their school yard and the kinds of food that they eat. The students want to answer this question:

Which type of food do birds in the school yard eat the most?

- 17 a. Write a plan Mr. Brown's students can follow to help them answer their question.

Mr. Brown's students can put some different kinds of food on the ground and see what food gets the most birds.

- b. Identify one thing in your plan that will stay the same in the investigation.

The one thing in my plan that will stay the same in the investigation is see what food gets the most birds.

Planning a New Investigation

Mr. Brown's class wants to learn more about the birds in their school yard and the kinds of food at they eat. The students want to answer this question:

Which type of food do birds in the school yard eat the most?

- 17 a. Write a plan Mr. Brown's students can follow to help them answer their question.

Mr. Browns class could observe the birds for 2 weeks, and then write down which birds at which foods and how much they ate.

- b. Identify one thing in your plan that will stay the same in the investigation.

the parts of amount change is the observation because there would be no information.