



BIRD BEAK CHALLENGE

5-12 yrs | 15 min | Stage 1 - 3

Mission Question

Which beak design collects the most food?




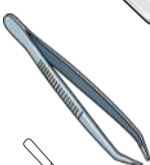

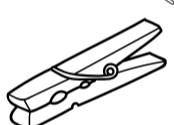

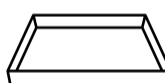


? Wonder & Predict

Which beak do you think will collect the most food?

- Spoon Peg
 Tweezers
 Chopsticks
 Something else: _____

WHY DO YOU THINK THAT?

What you will need

-  • Spoon
-  • Tweezers
-  • Chopsticks
-  • Peg
-  • Beans
-  • Tray
-  • Recording sheet
-  • Timer

Investigate

Follow the steps carefully while observing.

- 1 Prepare the Food**
Place the beans in a tray evenly over the surface.

- 2 Choose a Beak**
Select one tool to use as your bird beak.

- 3 Feed!**
Collect as many beans as possible in 30 seconds.
Record your result.

- 4 Change the Beak**
Use a different beak design. Repeat the test.

- 5 Compare Results**
Which beak collected the most food?
Look for patterns.

Observe & Record







What clues did you discover?

- Some beaks collected more food
 Different beaks worked differently
 The food affected the results
 Some beaks were easier to use
 My results surprised me
 I noticed a pattern



RECORD YOUR RESULTS

Food used: _____

BEAK / TOOL (My bird beak)	TIME LIMIT	NUMBER OF BEANS COLLECTED	RANK (1 = Most)	NOTES (What did you notice?)
 Spoon	 30 seconds			
 Tweezers	 30 seconds			
 Chopsticks	 30 seconds			
 Peg	 30 seconds			

What did you observe?

Describe what happened. Why do you think this happened?



What happened?

Fill in the sentences using words from the box.

adaptation | observation | food | survive | beak | pattern

1. Different birds have different _____ shapes.
2. Scientists make careful _____.
3. Birds use their beaks to collect _____.
4. A helpful feature is called an _____.
5. Adaptations help animals _____.
6. Scientists look for a _____ in their results.



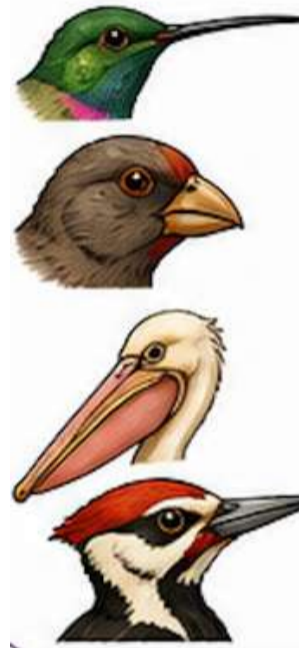
The science behind it

Different Birds Need Different Tools

Birds eat many different foods. Some eat seeds. Some catch insects. Some drink nectar. Different foods need different beaks.

Adaptations Help Animals Survive

A beak that works well for one food might not work well for another. Scientists call helpful features adaptations.



Bird beaks come in many shapes and sizes.

Some are long and thin.

Others are short and strong.

Scientists begin by **observing** these differences.



Take it further - Essy's Question

Could the Best Beak Change?

You tested one type of food.

Now investigate a different variable.

Try
Rice
Pasta
Marbles

My prediction:

What happened?



KEEP THE SCIENCE GOING!

One experiment is just the beginning...

Inside **The Crazy Scientist LAB™**, parents, homeschoolers and teachers get access to a growing library of science adventures designed to keep curious minds exploring.

FOR KIDS	FOR PARENTS & HOMESCHOOLERS	FOR TEACHERS
<ul style="list-style-type: none"> Science Missions Dinosaur Adventures Space Challenges Mystery Investigations Museum Video Expeditions Gifted & Talented Challenges Science Stories & Characters 	<ul style="list-style-type: none"> Printable Worksheets HD Science Posters Data Activities Extension Challenges Critical Thinking Activities Guided Learning Resources 	<ul style="list-style-type: none"> Ready-to-Teach Resources Curriculum-Aligned Activities Differentiation Ideas Assessment & Investigation Tasks HD Classroom Printables Lesson Hook Videos

ESSY'S SCIENTIST TIP

Great scientists never stop asking questions.

What will you investigate next?

ASK QUESTIONS
 OBSERVE CAREFULLY
 COLLECT EVIDENCE
 THINK LIKE A SCIENTIST
 LOOK FOR PATTERNS
 MAKE DISCOVERIES

NEW MISSIONS ADDED REGULARLY!

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- Animal Adaptation Missions
- Bone Detective Challenges
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COMING EARLY 2027!