

# BUILDING BIRD BEAKS!



Using some recycled materials, some engineering and a little bird know-how...make you very own "working" beak!

## Materials:

Cardboard strips

Extra cardboard (for beaks)

Brads

Scissors

Paint/markers

Glue/tape

\*\*Clue Cards (optional)

## How to:

1. Cut 4 strips of cardboard (approximately 4" x  $\frac{3}{4}$ " works, but feel free to improvise!)
2. Punch 2 holes in each (one at a far end and one in the middle)
3. Attach 2 strips in middle with a brad (forming an x)  
Repeat on other 2 strips (now you 2 xs)
4. Connect the 2 xs with brads forming xx
5. Draw and cut out a beak (top and bottom should be cut apart)
6. Glue/tape top of beak onto top cardboard strip, and bottom onto the bottom strip  
For best results, lay beak together upside down, fully extend cardboard contraption, glue or tap on beak to each piece

**BEAK:** A bird's beak (bill) is used for feeding, preening, manipulating objects, courtship, etc.  
Upper and lower mandibles are bony projections covered with a thin layer of keratin  
Vary in size, shape, color, texture

**ADAPTATION:** A change in the structure of function of an organism's body or behavior (due to natural selection) by which it is better able to survive in its environment.

## \*\* Looking for more of a challenge?

Pick a description and design your beak to fit.

Do some research! Find out about the amazing adaptations of some bird beak and design your after that



# Building Bird Beaks

## MATERIALS:

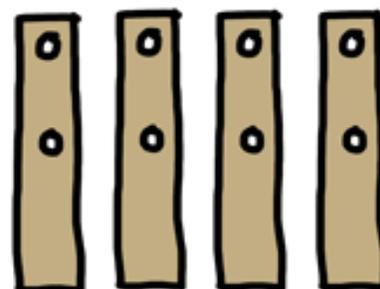
### CARBOARD STRIPS

Aprox size: 4" X 3/4"

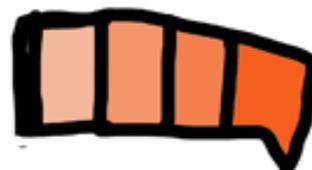
2 Holes: 1 at end + 1 in middle

At least 4 strips

\*\*\* Try more for a longer reach!!!



TOP OF BEAK

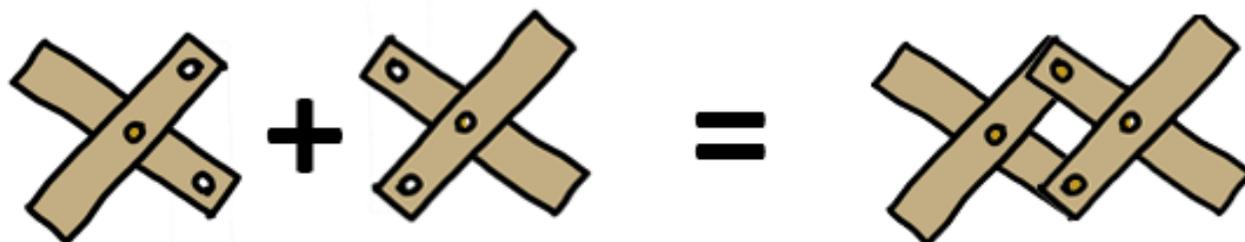


BOTTOM OF BEAK

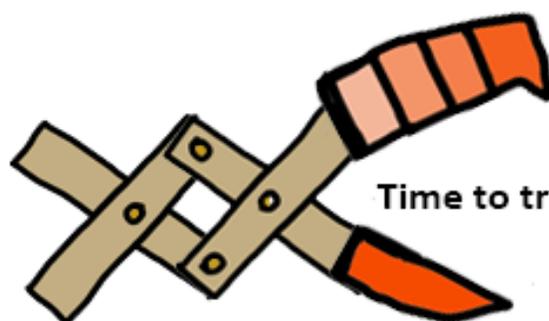
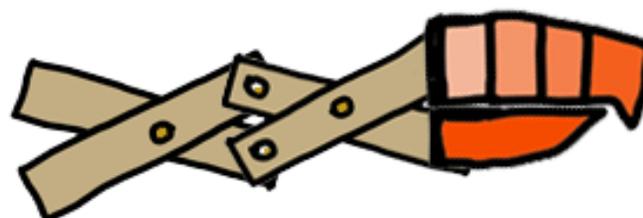


---

## HOW TO:



Attach beak to cardboard strips  
\*For best results lay beak backwards, extend cardboard contraption, glue/tape onto beak



That's it!

Time to try out your new beak!

# CLUES



Cabrillo  
Marine  
Aquarium

**You catch Fish  
with your beak**

**You tear Flesh  
with your beak**

**You collect Nectar  
From deep inside a flower  
with your beak**

**You catch Insects  
with a beak  
While you are flying**

**You crack hard Seeds  
With your beak**

**You catch  
small Crabs and Shrimp  
with your beak**

**You eat Algae  
with your beak**

**You hammer holes  
in trees with your beak**

**You find animals  
In the shallow mud**

**with your beak**

**You find animals  
In the deep mud  
with your beak**

**You hunt in the sand near  
the edge of the ocean**

**You eat insects that  
Hide inside of beach  
wrack**

**You steal fish from other  
bird midflight**

**You eat almost anything  
you find in a trashcan**

**What clue's can you come  
up with?**