INSTRUCTIONS

The Bird Beak Adaptation lesson is a favorite in my classroom. This is a super iun lesson that is broken into stations with different rotations. The kids absolutely love it and walk away with a better uncerstanding of animal adaptations. There are many variations of how to teach this lesson, each as effective as the other.

One of the ways I teach this lessonal to assign each sudert a specific "beak" to be carried with them through each rotation. You can also lay the "beaks" out and draw student's names allowing them to pick ther own tool. I like to do this without giving any clues or insight to what the tools will be used for. Once "beaks" are defined split the class into 6 groups. Aim to have at least one type of each beak it each group. Each student will also need a studil cup. The cup MUST be held to their chest the entire game, leaving them only one hanc

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Students will rotate to station has a different conformed and a different conformation of food specific to a formation of food specific to a formation of the state of the state of the state of the stude to collect as much food as the state of the state The materials you need for this lesson are the following:

• Rice, and Clay: Simply, just press the dough into a pile of rice.

• **Straws**: I cut the straws, I don't measure, but would estimate the ones I use are close to 2 inches.

• Marbles and wide mouth container to hold water: With the marbles I use a container full of water, (like an ice cream bucket)

• **Rubber Bands:** The rubber bands I use are assorted sizes, the thicker are easier to pick up. I cut them up just so there are more. You could keep them whole and save them for when you need a rubber band ;D

Seeds: Induced che (dip tray chine collar store that was effection the seed. If non-would pread them on a cookie sheet an. You could used bird multuse unflower seeds. Water and Container: (New workse is dest) Represents nectar in

Noberfully you can adapt the lesson to what you already have. I'll include what I use below.... Keep in mind these materials can be used year after year. I initially bought the majority of my supplies at a dollar store for less than \$30.00

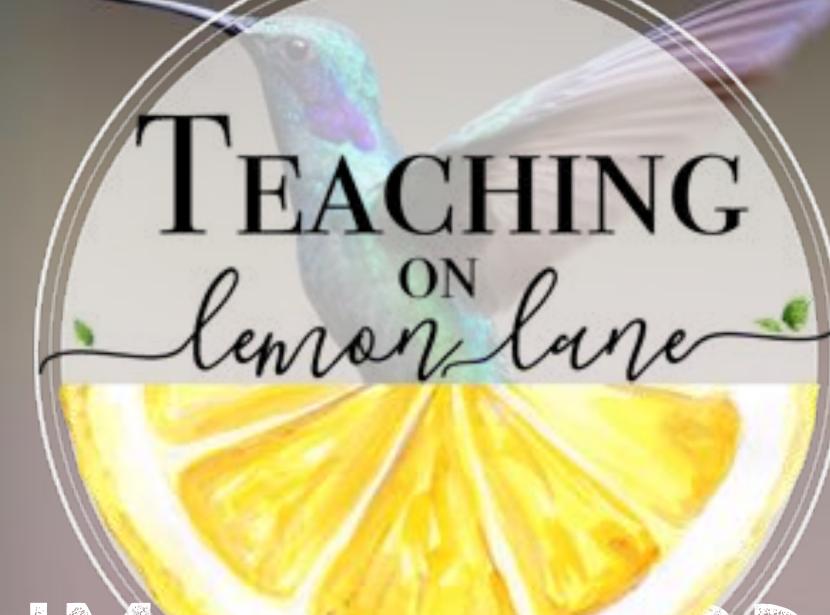
or the beaks I use enopsticks, tweezers, slotted spoons, straws,

uded a key as well as an Jal beak and

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A Starter

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Finch = Clothes Pin

A finch is generally a seed eater. They crack open seeds and nuts with their short, stout, cone-shaped beaks. These beaks have some special features that make cracking easier: the edges of the lower mandible (the lower beak) fit into special grooves in the upper mandible (upper beak). A finch will use its tongue to maneuver seeds into the groove. When the bird closes its beak, the sharp lower mandible crushes the seed's shell so the bird can eat the seed within.

Hummingbird = Straw and they have a high metabolism. A great deal of energy is spent flying, so they must feed almost

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Hummingbirds are very small birds constantly. Hummingbi ds can cons like beaks. It's beak is just a protect the two "troughs." There is no suct towel draws up water. This process per second – which makes it look like

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e sheath or its tongu

the huminingbird is lick

Flamingo = Slotted Spop

Flamingos are pink because the algae deey consume are loaded with beta carotene a chemical that contains a reddish-conge pigment. To eat, flamingos will be in up the bottom of the lake with their eet and duck their beaks down into memory and water to carch their meal. They actually eat upside down and use the opennes at the op of their beaks to finer the care they nume through their beak.

Warblers mostly eat them to grab insects meals

Ducks use their beaks to det Ducks fall into one of two cate Divers dive deep underneath the beak will allow. that enable multi-legged

and inedible objects. ads underneath to eat. crawfish -- whatever the

h day Humminghirds have long, needle

Id the nectar is drawn up into

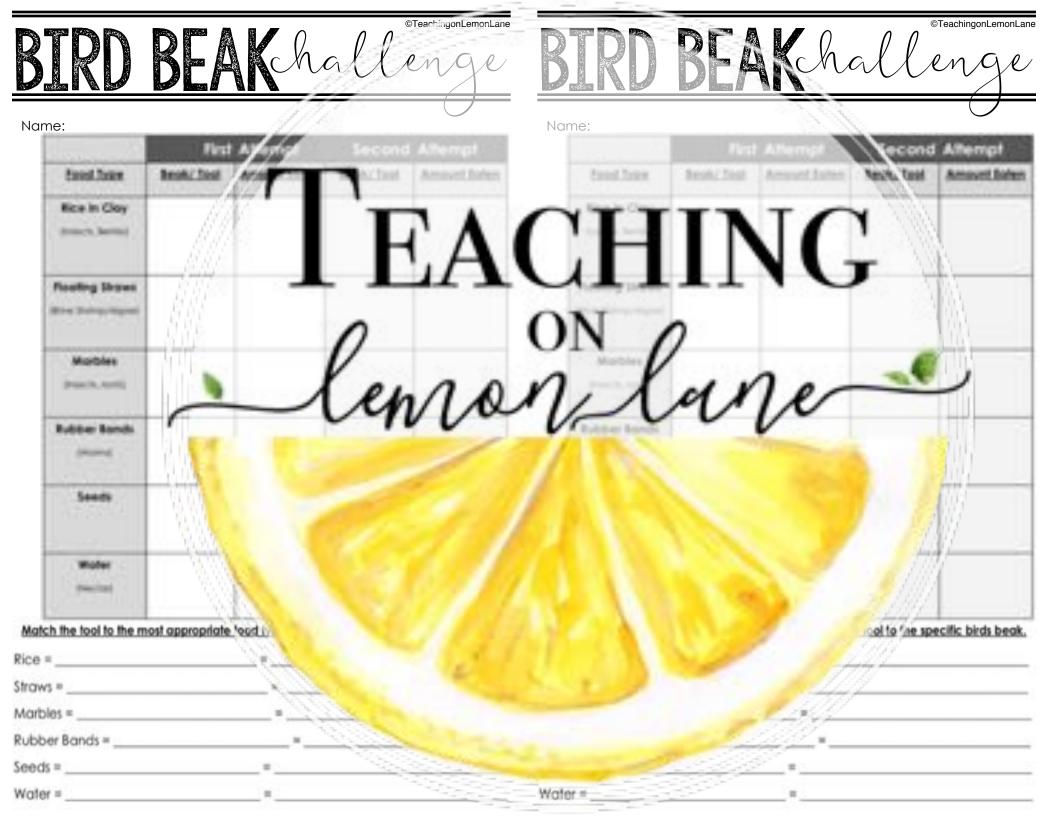
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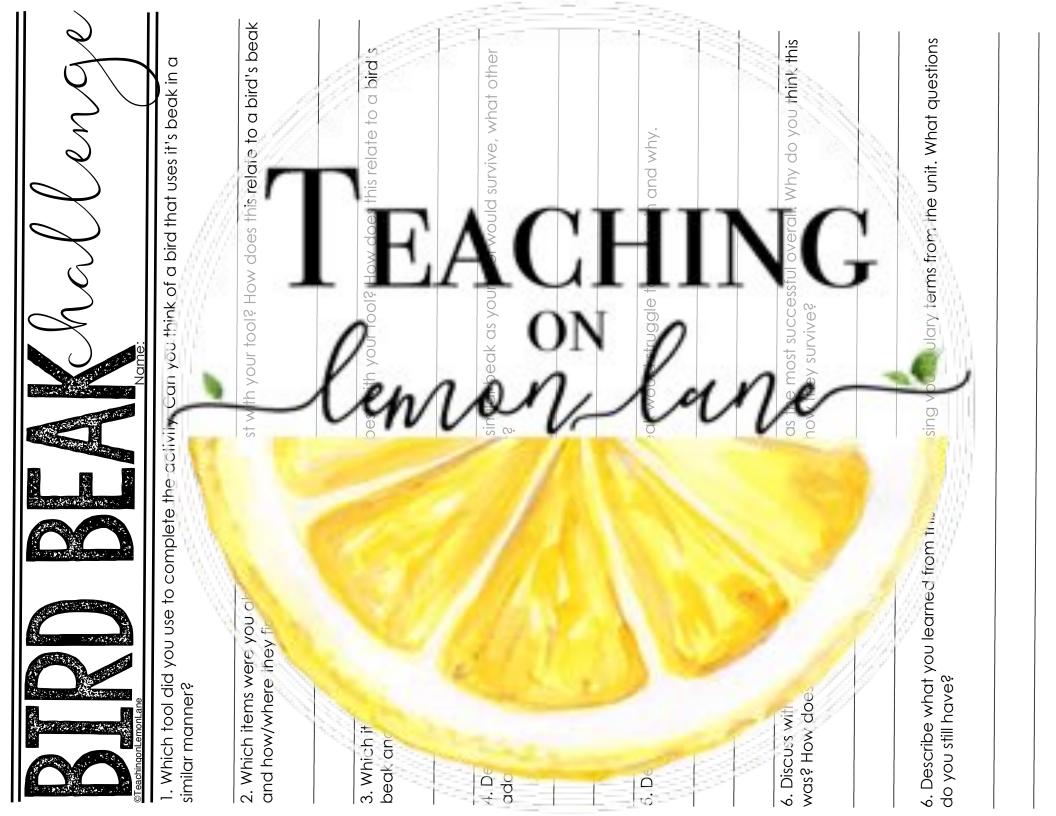
e from three to thirteen times

sects to get protein.

Although the ibis is an omnivorous bird that eats both permore carnivorous diet. The ibis hunts fish, insects, small reputes, using it's long and pointed beak.

are plenty of aquatic species, the ibis prefers a mammals and crabs, which the ibis picks out of the mud







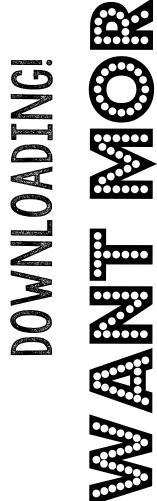


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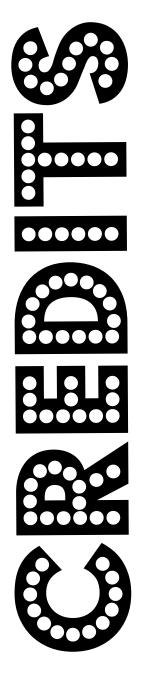
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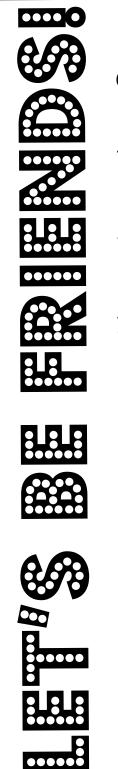
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