

Bird Nest

Engineering Challenge

Using found natural materials, can you make a bird nest that can hold three eggs (marbles)?

Created by: Smart Chick Teaching Resources



Teacher Directions

Materials:

- Variety of natural materials (sticks, grass, stems, leaves, etc.)
- Three glass marbles
- One real bird nest (if you have one or can find one) to use as an example

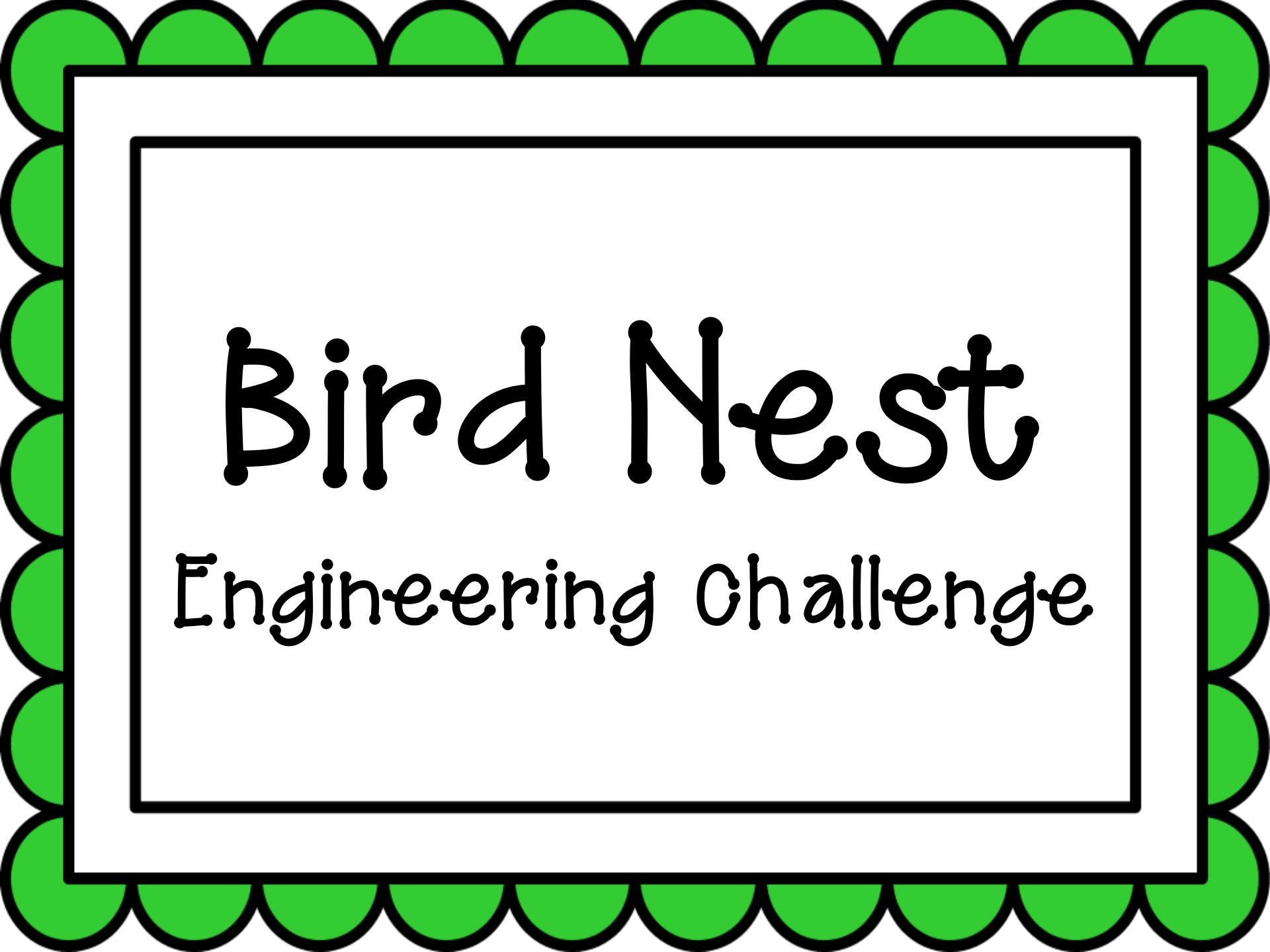
Set-Up:

- Each student group (we do this in pairs) needs to first collect a variety of natural materials from around their yards and bring them into the classroom in a bag.
- Construct the nest using ONLY these materials.
- Provide a flat surface for the construction.



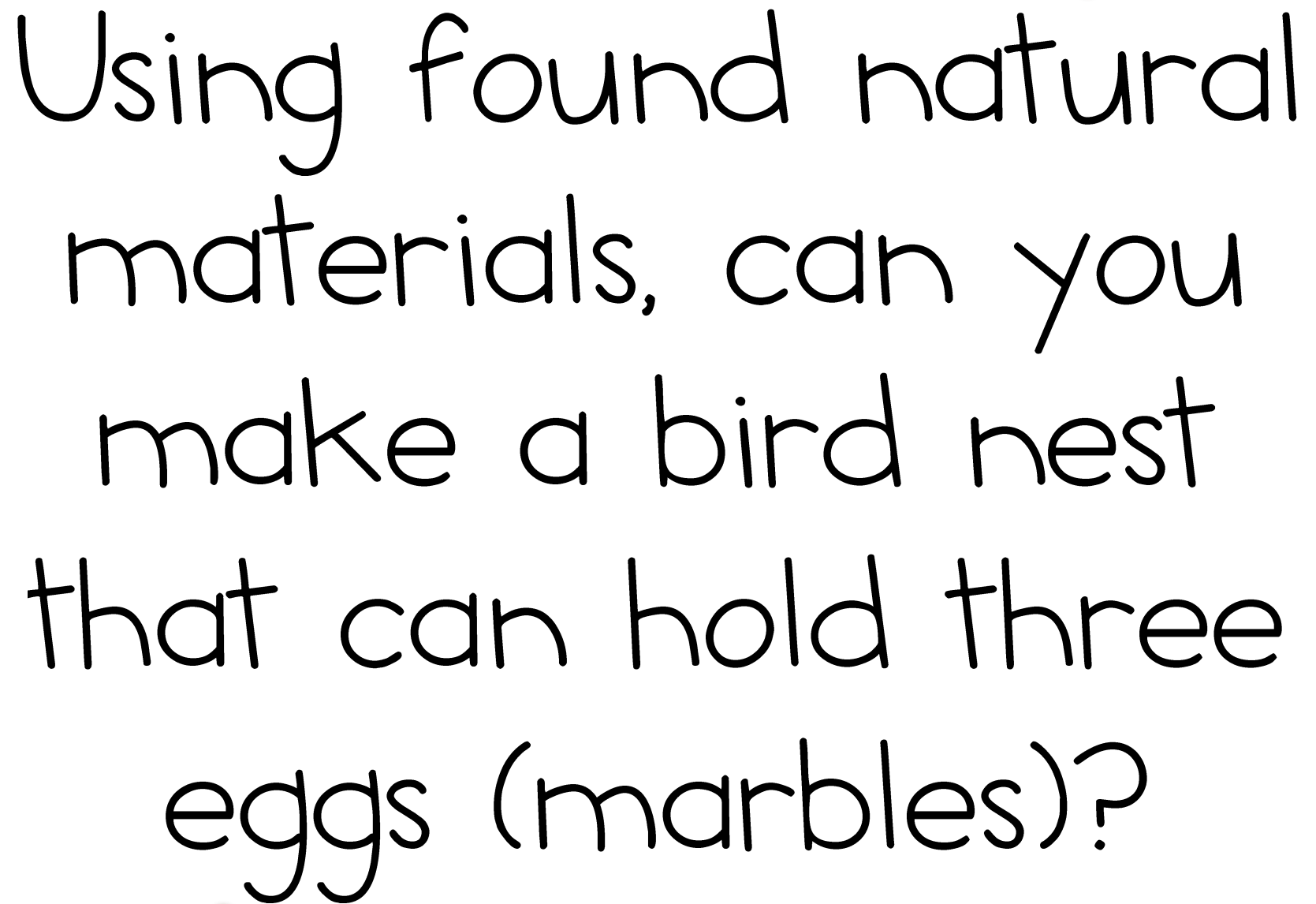
Goal:

Students will construct a bird nest using found natural materials that can hold three eggs (marbles).



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Using found natural materials, can you make a bird nest that can hold three eggs (marbles)?

Challenge Rules

- You must use **only** found natural materials.
- The nest must work! It has to safely hold three eggs (marbles), without the eggs falling through.
- Your goal is to build a bird nest using the materials.
- You may not use any other materials (like tape or glue) to complete the challenge.
- There are many different ways to complete this challenge. Be creative!

Student Lab Sheet: Bird Nest Challenge

Name _____

Were you successful in this challenge? Why or why not?

What was the most difficult part of this challenge? Why?

What was the best idea you came up with during this challenge?

How well was your bird nest constructed? Did it hold the three "eggs"?

What did you learn about construction and engineering during this challenge?

Sketch your solution on the back of the sheet.

My Questions: