



## Earth Friendly Birdhouses

You have been reading and talking about animals and their habitats in class. You know that they have special needs. You have also been talking about resources and know that conserving resources by recycling, reusing, and reducing waste is important. Now you will have a chance to put what you know to use.

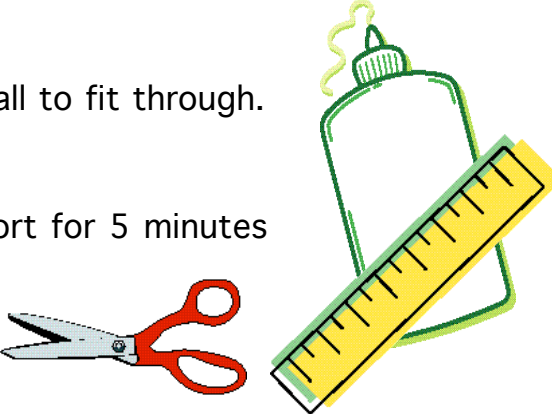
### Design Challenge:

Design and build a birdhouse that will attract a bird in your neighborhood. The bird you plan the house for should be about the size of a tennis ball.

### Criteria:

Your birdhouse must

- have a door that is big enough for a golf ball to fit through.
- have a perch inside.
- have a perch outside the door.
- be able to hang from a tree or other support for 5 minutes with a golf ball inside.
- keep birds safe from rain and wind.
- be squirrel and cat proof.



### Materials: What can you use?

- |                            |                          |                                  |
|----------------------------|--------------------------|----------------------------------|
| • string                   | • pipe cleaners          | • hole punch                     |
| • craft sticks             | • jumbo brads            | • glue                           |
| • straws                   | • jumbo paperclips       | • general classroom art supplies |
| • meat trays               | • flat milk carton sides | that your teacher might provide  |
| • flat pieces of cardboard | • poster board           |                                  |
| • Styrofoam                | • 24 inches masking tape |                                  |

~ Not all supplies need to be used. ~



SOL Target Standards:	Science: 1.5, 1.7, 1.8, 2.4, 2.5, 2.7	English: K.2, K.3
Supporting SOL Standards:	Science: K.6, K.10	English: 1.1, 1.2, 1.3, 2.2, 2.3
		Math: K.12, 1.2, 2.12

# Earth Friendly Birdhouses



Group Members: \_\_\_\_\_

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## 1. What is the problem?

State the problem in your own words.

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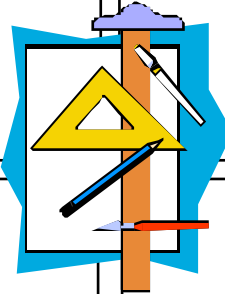
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## 2. Brainstorm solutions.

Sketch or describe some possible solutions.



## 4. Test your solution.

- Does your birdhouse have a door that is big enough for a golf ball to fit through? YES NO
  - Does it have a perch inside? YES NO
  - Does it have a perch outside the door? YES NO
  - Can your birdhouse hang from a tree or other support for 5 minutes with a golf ball inside? YES NO
  - Can it keep birds safe from rain and wind? YES NO
  - Do you think your birdhouse is squirrel and cat proof? Why? \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

## 5. Evaluate your solution.

Was it the best solution? Would one of your other ideas have been better? Why or why not?

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\_\_\_\_\_

What would you have done differently?

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Can you add to it to make it better? What would you add to it?

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\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## Guided Portfolio

Attach a photograph of your final project here. If you do not have a photograph, draw a picture of your final product.



How would you make your project better? Draw a picture showing how it would look after you made changes to it.

