

```
Name
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Read the task. Then, follow the steps to complete the task.

	Float Your Boat	\mathcal{R}
Use only the aluminum foil provided to create a boat that can hold the most marbles without sinking. Materials		
1-foot (30 cm)-square piece of aluminum foil water container, water	marbles (or a variety of objects to weigh, such as dice, counters, or eraser caps)	

Ask

What do you already know? What do you need to know to get started? Where can you find the information you need?



What are the possibilities? Come up with several different options.







Follow your plan to create your model. What worked? What didn't? What did you need to change as you went through your plan? Why?

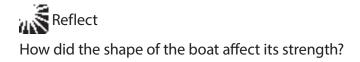


🗲 Improve

How could you improve your model? Do you need to start over, or can you redo a single part? If it works, can it work even better?



How well did it work? Is the problem solved? Write a statement to describe how your model meets the guidelines of the task and why it is successful.



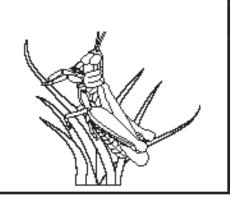
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Happily Hidden: Camouflage

Create a habitat and a creature that is camouflaged from view.

Materials art supplies, such as markers or crayons chenille stems construction paper cotton balls craft sticks

glue scissors shoe box small rocks sticks and twigs tape



Caution: Before beginning any nature activity, ask families' permission and inquire about students' plant and animal allergies. Remind students not to touch plants or animals during the activity.



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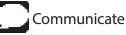


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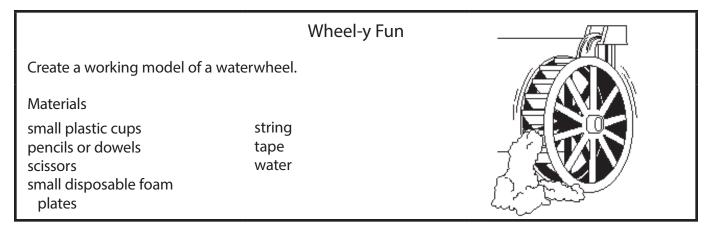
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Does your creature's camouflage keep it safe from predators both in the air and on the ground? Explain.

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How did you design your waterwheel to "catch" the water?

Name

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Melting Master Find a way to prevent candy from melting under a lamp. Materials aluminum foil paper plate chocolate chips paper towels cotton balls plastic wrap lamp timer newspaper

Caution: Before beginning any food activity, ask families' permission and inquire about students' food allergies and religious or other food restrictions.



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What are the possibilities? Come up with several different options.





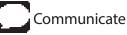


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Do you think some kinds of candy melt more easily than others? Explain.

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Ready, Set, Recycle! Create an educational game or puzzle with recycled materials. Materials bottle caps glue brass fasteners kid-friendly magazines cardboard markers cereal boxes scissors used wrapping paper dice (optional)

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What are the pros and cons of using recycled materials? Which point is most important?