

# INV 1. ACTIVITY— MAKE “MY BOOK OF SOLIDS”

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## Make “My Book of Solids”

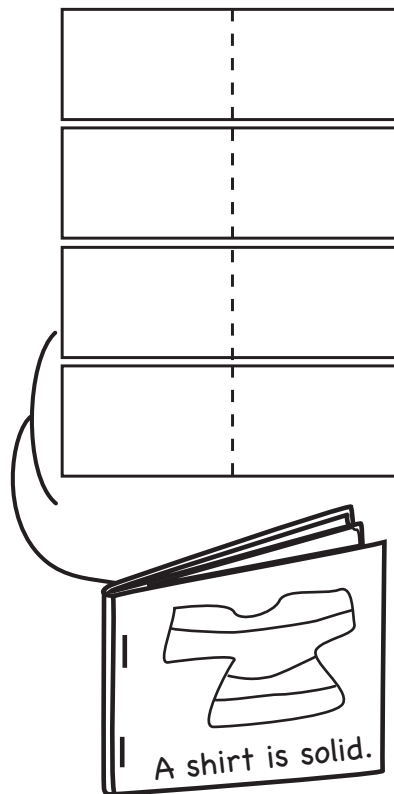
Cut a standard sheet of paper into four pieces as illustrated below.

Fold the strips in half and give two to each book maker.

Have them draw pictures of solid objects—pencils, books, coins, articles of clothing—on the pages. Ask them to caption each picture using a vocabulary word (e.g., “A pencil is rigid.”) or to complete a sentence frame you assign (e.g., “A \_\_\_\_ is solid.”).

Your child could make individual books devoted to one material. Have them draw images of different objects made of one kind of material.

Make a construction-paper cover in the same manner, and help students staple the book together.



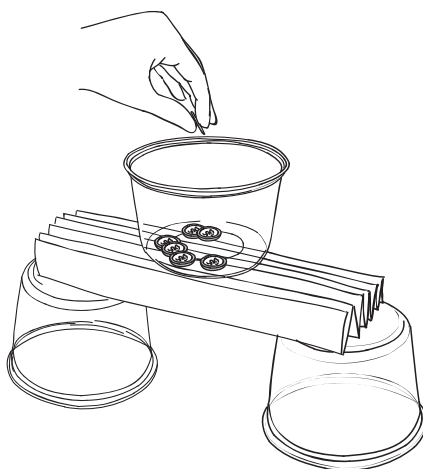
# INV 1. ACTIVITY— BUILD A PAPER BRIDGE

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## Build a paper bridge

In the classroom investigation, students learned that the properties of a solid could be used in making construction choices. In this activity, students explore how the shape of a solid affects its property of strength. Provide your child two plastic containers of the same size (1/2 L is good) and a sheet of paper. Have them make a bridge across the containers with the paper.

To test the bridge, give each team another plastic container of the same size or smaller to place on top. Children can add pennies as “passengers” to see how much weight the bridge will hold. Show them how to change the shape of the bridge by folding the paper like an accordion. Have them test out their new bridge, justify the selection of the materials they chose, and discuss the results.



# INV 1. ACTIVITY— PLAY I SPY SOLIDS OUTDOORS

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## Solids Review

The Home/School Connections for Investigation 1 is a structured version of I Spy Solids. This takes the activity outdoors on a walk.

Go for a walk in your neighborhood, go in your yard, sit on your porch, or look out a window.

What solid objects do you observe outdoors?

Pick three of those solid objects and draw a picture of each. Label some of the characteristics of each object.

- Are the solids you choose human made or natural objects?