

Dear Kara and Laura.

Cats and bubbles are round like balls for the same reason. They're working to be small.

The shape that does that better than any other is a ball – a sphere (sfeer). Cats try to be as small as possible to stay warm. The smaller they are, the less skin is exposed to the cold outside air. Bubbles do it because soap film always shrinks to be as small as it can be. The smallest shape

bubbles can be and still contain the same amount of air is a ball. Today's experiments are better to

do than read about!

MORE STUFF:

Hold the hook and din the whole thing into the sink. Pull it out slowly. The soap film will look like a beautiful twisted slide

Try other shapes. Just make sure the wires do not touch when they cross.

Mirror Message: Now that you've got a sink full of soapy water, help out and

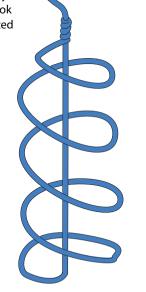
do the dishes!

experiment #2

Getting Extreme

WHAT YOU NEED: Coat hangers - sink of soapy water from Experiment #1

WHAT TO DO: Bend the coat hangers into twisted springs and tangled messes of wire. Just make sure that the tangles do not touch each other when the wires cross. Take the time to pull touching places apart.



experiment #1

Shrinking Soap Film

WHAT YOU NEED: 2 cups dishwashing soap – water – rubber band

WHAT TO DO: Add the soap to a sink of water and stir well. Get your hands all wet and soapy. Stretch the rubber band over your fingers, turning and twisting it into weird shapes. Dip it into the soapy water and then lift it out.



SO WHAT

You got some pretty strangelooking soap films. That's because the film shrinks to its smallest possible shape.

Try it with a friend's helping hands. The shapes can get even stranger with 2 people.

