How to Make Your 200 Merang

You can print out your ZOOMerang and make it into a little booklet.

#### Here's how:

- Print all the ZOOMerang pages.
- Cut out each page along the dotted lines.
- Tape pages I-6 together from end to end so that you have a long row.
- Tape pages A-F together to make a second long row.
- Lay one row face down on a table and put some glue on the back of the pages.
- Place the second row on top of the first row. The printed part of the second row should face you.
- Smooth out the glue with your hand.
- Let it dry and then fold your ZOOMerang where the pages join together.

What You Need scissors

- tape
- glue

### What You Need

- 6 ounce package of chocolate chips
- microwave-safe bowl
- spoon
- foil baking cups
- plate
- fruit or ice cream (to put in your bowls)

Put the **chocolate chips** in a microwave-safe bowl. Heat them in a microwave, stirring every ten seconds until they are melted. (You can also melt them on a stove. Ask an adult if you can use the microwave or stove.)

Use a spoon to spread the melted chocolate on the inside of the foil baking cups. Put the baking cups on a plate and stick them in the freezer for about 15 minutes to freeze the chocolate.

Sent in by Alanna N. of Franklin, TN



Take them out of the freezer and add another layer of chocolate.

Freeze them again for 15 minutes.

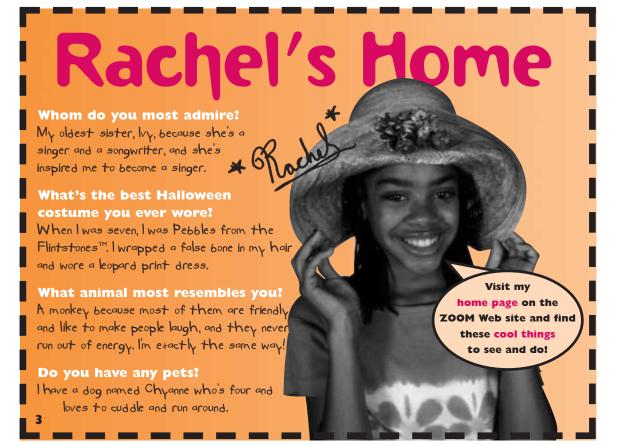
Then peel off the wrappers.

Fill the bowls with ice cream or fruit and enjoy!

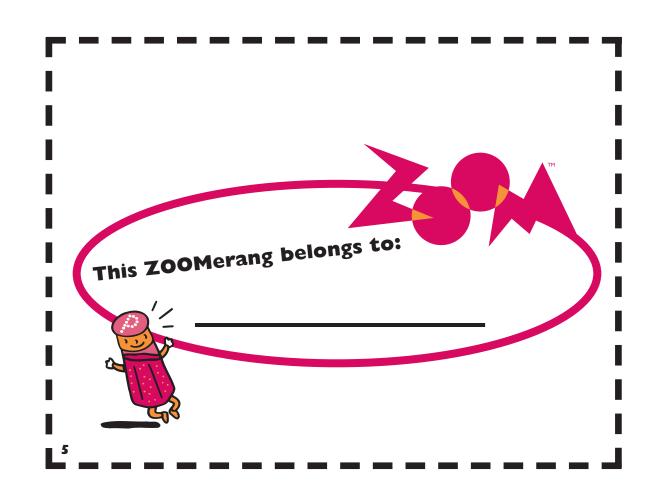
What did you put in your chocolate bowls? You can try melting other kinds of chips, like white chocolate or peanut butter. If you come up with a delicious mix of chips and filling, send your recipe to ZOOM at pbskids.org/zoom

Find more sweet treats, like
Peanut Butter Cups or Dessert Pizza
at pbskids.org/zoom/cafe

wall. Then **bend** the same arm, and **rub** that elbow hard for a few seconds. Now **stretch** your arm back toward the wall again. **What happens**?









Sent in by Katherine
L. of Edmonton,
Alberta, Canada

Paper clip to moat,

### What You Need

- cup of water
- 2 paper clips
- paper towel



Drop a paper clip in the cup of water. What happens? Tear off a piece of paper towel that is slightly larger than the paper clip. Put the piece of paper towel on top of the water.

Gently place the second paper clip on the piece of paper towel. Wait a few seconds.

What happens?

Z5 SCÍ™

Now it's time for you to experiment. What happens if you add a drop of liquid soap to the water while the paper clip is floating? What happens if you fill the cup with a liquid other than water, like vegetable oil or soda water? Choose one thing to change (that's the variable), and make a prediction. Then test it and send your results to ZOOM at pbskids.org/zoom

### Science Scoop

If you drop a paper clip in water, the paper clip **sinks**. If you put the paper clip on a piece of paper towel, the paper towel sinks but the paper clip floats. Water particles are attracted to each other in all directions, making them "stick" together. However, the water particles at the surface "stick" only to particles next to and below them. That's because there are none above them. This makes the water's surface act as if it had a thin "skin." This is called surface tension. The paper towel helps you to lower the paper clip onto the surface **gently** without breaking the surface tension. If you are very careful, you can float the paper clip on the water without using a paper towel

## Soap-Powered

Make a boat that's

phenom



the surface again. Now what happens? of Belle Plaine, IA liquid soap on your finger, and touch

# powered by soap!

index card

- scissors
- wide bowl or baking pan filled with water

What You Need

• dishwashing soap



You found out in Floating Paper Clip that water acts like it has a stretchy "skin" on its surface. This is called surface tension. If you reduce the surface tension, you can make the pepper or boat **move**. How? By adding **soap!** When you touch the water's surface with soap, you • reduce the surface tension at that **spot**. Since % the surface tension in the rest of the water is stronger than at the soapy spot, water particles elsewhere in the cup or bowl pull water particles away from the soapy spot. And, if there's something resting on the water particles, like **pepper** or the **boat**, it goes along for the ride, too!

Cut a small notch in one of the short sides of an index card. That's

where your "fuel"—the dishwashing soap—will go. Float the index card in the bowl of water. Add a drop of soap. What happens?

Now it's time for you to experiment. What happens if you add different amounts of dishwashing soap? What happens if you put the dishwashing soap somewhere else on the water? Or, what happens if you use another liquid—like lotion or vegetable oil-for the fuel? Choose one thing to change (that's the variable), and make a prediction. Then test it and send your results to ZOOM, Box 350, Boston, MA 02134.

Sent in by Reza and Zaker K. of Nashville, TN

# Turn an old T-shirt into a comfy Pillow,

## 2000M

### What You Need

- old T-shirt
- sewing needle
- thread
- polyester or cotton stuffing (about 17 ounces)
- fabric paints (optional)



Find an old **T-shirt** that no one wears any

more. (You can use one with a **design**, or use a **white** one and **decorate** it with fabric

Sent in by Jolanda K. of Riverside, CA

If you like sewing,
check out the Pantyhose Face Doll
or the Silly Serpent/Tie Creature at
pbskids.org/zoom/do



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e one

cy. The rest of

a circle. The

one of the players

and purrs like a cat.

nust pat the kitty on

three times and say,

Kitty," without laughing.

layer laughs, he or she

comes the next kitty. If the

player doesn't laugh, the kitty moves
on to a different person. Tell us about your volunteer project.

If you do, we'll send you a free **ZOOM** Into Action wristband and T-shirt decal. Visit the ZOOM Web site

to find out how to share your story.

Dylan, Jackson, and Eamon M. of
Upland, California, are members of the
ZOOMteam. They take care of puppies
that will be trained as guide dogs for
people who are blind. Guide dogs help
their owners get around and do things,
like crossing busy streets. Dylan,
Jackson, and Eamon say they are sad
when it's time to send the puppies to
school, but they feel good knowing
they are helping people.

You can volunteer and become a member of the ZOOMteam, too.
Visit **pbskids.org/zoom/action** to learn how and to see what other kids are doing.

Zaction"

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