

How to Make Your ZOOMerang

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 1–6 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

Voilà!

Cafe



Chocolate

Now you can eat the bowl, too!

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

Bowls

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

Stretch your arm out so that it just touches the 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 Kimmi and Nicholas L. of Highland, IN

Rachel's Home

Whom do you most admire?

My oldest sister, Ivy, because she's a singer and a songwriter, and she's inspired me to become a singer.

* *Rachel* *

What's the best Halloween costume you ever wore?

When I was seven, I was Pebbles from the Flintstones™. I wrapped a false bone in my hair and wore a leopard print dress.

What animal most resembles you?

A monkey because most of them are friendly and like to make people laugh, and they never run out of energy. I'm exactly the same way!

Do you have any pets?

I have a dog named Chyanne who's four and loves to cuddle and run around.

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Visit my home page on the ZOOM Web site and find these cool things to see and do!

Page



If you don't have Web access at home, you can probably log on at your school, public library, or local community center.

at pbskids.org/zoom



ZOOMmusic

Listen to your favorite tunes from ZOOM.



Ubbi Dubbi

Learn how to speak ZOOM's secret language.



Zoops



Share your most embarrassing moments.



Studio Z

Take a peek behind the scenes on the ZOOM set!

Can you read this?

ZubOOM ubintubo ubactubion—juboin thube ZubOOMtubeam.

Go to pbskids.org/zoom/ubbidubbi and you can use the Ubbi Dubbi translator to find out what it says!



This ZOOMerang belongs to:







The Arthur
Vining Davis
Foundations



Thanks for
writing
to ZOOM!



ZOOM erang™



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

Floating Paper Clip

How can you get a paper clip to float?



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?

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



A

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.



Pepper

Make pepper move with the touch of a finger.

Fill a bowl with **water**. Sprinkle some **pepper** on the top of the water. Then **touch** the surface of the water with your finger. What happens? Put a drop of **liquid soap** on your finger, and touch the surface again. Now **what happens?**

Sent in by Kassie B. of Belle Plaine, IL

Soap-Powered

Make a boat that’s



ZOMphenom™

Boat

powered by soap!

What You Need

- index card
- scissors
- wide bowl or baking pan filled with water
- dishwashing soap



ZOOM phenom™

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.

Science Scoop

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!



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

C

T-Shirt Pillow

Turn an old T-shirt into a comfy pillow!



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 paints.) **Turn** the T-shirt inside out. **Sew** the bottom and arm holes closed. (Sewing may take a while, but don't give up!) When you are done, **turn** the T-shirt right-side out again. **Stuff** it and **sew** the head hole closed.

Now you have a **comfy pillow** that looks like your favorite old T-shirt!



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

Sent in by Jolanda K. of Riverside, CA

D



Poor Kitty

You need at least **three people** to play, but the game works better if there are more. **Choose** one person to be the **kitty**. The rest of the players stand in a **circle**. The kitty goes up to one of the players and **meows and purrs** like a cat. The player must **pat** the kitty on the head **three times** and say, "**Poor Kitty**," without laughing. If a player **laughs**, he or she becomes the next **kitty**. If the player doesn't laugh, the kitty moves on to a different person.

ZOOM game™
E

Sent in by Angela and Randy B. of Kensington, OH



Share Your Story!

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.

Zoom Into Action™

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ZOOM is produced by WGBH Boston. Funding for ZOOM is provided by the National Science Foundation, the Corporation for Public Broadcasting, the Arthur Vining Davis Foundations, and public television viewers.

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