How to Make Your 200Merang

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

'oila!

• glue



Claudio's Home

J'é

What kind of music do you like? | listen to pop, rap, and hip-hop music,

If you could change one thing about the world, what would it be? I would stop all the pollution by making

all cars be solar and battery powered.

Which has been your favorite segment of ZOOM so far? Cafe200M is the coolest 200M activity.

What animal most resembles you? A +iger

What are your favorite things to do? I like to watch sunsets and eat ice cream. Visit my home page on the ZOOM Web site and find these cool things to see and do!





Make a **funnel** by rolling a piece of paper. **Pour** the beans through the funnel and into the bottle.

Blow up a balloon, and then let the air out. (This loosens up the balloon.) Stretch the balloon over the top of the bottle. Turn the bottle over, and pour the beans into the balloon. Take the balloon off the bottle.

Now, **blow up** the second balloon and let the air out. **Cut** off the neck of this balloon, and **stretch** it over the balloon that's filled with beans. Do this **again** with the third balloon and **stretch** it over the second balloon. (This is to make sure the beans won't come out.) Now

Look for

more **toys** you can make, like Shadow Puppets and Ping Pong Paddles, at **pbskids.org/zoom/do**









Fill a bottle to the top with warm water. Add a few **drops of food coloring** to the water. **Put** ¹/₃ of the straw in the bottle. Use some clay to **seal the bottle** closed and hold the straw in place. (Make sure the bottle is completely sealed.) How much water is in the straw? **Mark** the water level on the straw. **Put** the bottle in a bowl of ice. What happens? (It may take a few minutes before you notice any changes.) **Experiment** with different materials. What happens if you use a straw that is very thin or very wide? What happens if you use a larger or smaller bottle? **Change one thing** (that's the variable), and predict what you think will happen. Then **test it** and send your reports to ZOOM, Box 350, Boston, MA 02134 or **pbskids.org/zoom**

How did other kids' thermometers work? Find out at Pbskids.org/zoom/sci/ thermometer.html

Toe Tac Tic

What You Need

- two players
- paper
- pencil

Draw a Tic-Tac-Toe board. **Choose** one person to be "X" and another person to be "O." **Play** the game just like Tic-Tac-Toe, but try **NOT** to get three in a row. The player who gets three in a row first is **Out**, and the other player **wins**.

Do you know other games with rules that can be reversed? Send your ideas to ZOOM, Box 350, Boston, MA 02134 or **pbskids.org/zoom**

Sent in by Carly L. of Lake Oswego, OR



Sent in by the kids from the St. Pierre School in Quebec, Canada

Thaumatrope

What You Need

- the pictures on the back of this page
- scissors
- Dencil .
- tape



Cut off this page along the dashed line on the back. Then fold it in half. (The pictures should be on the outside.) **Tape** the folded page to a pencil. **Spin** the pencil between your hands. What do you see?

Now make your own thaumatrope. Get a white **index**

card and fold it in half. Draw one part of a picture on one half of the card, and the other part of the picture on the other half. Then **tape** the card to a pencil, and give it a **spin**. What kinds of pictures work best? What happens when you spin the pencil more quickly or more slowly? Send your results to ZOOM at **pbskids.org/zoom**

Science Scoop

When you spin the thaumatrope, the pictures move so quickly that your eyes and holds on to each picture for a fraction of a