

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!

Caroline's Home

What do you want to be when you grow up?

An actress

How would the other cast members describe you?

Nice, outgoing, fun to play with,
and happy

What things do you like to do?

Swim, act, and read

What's your favorite food?

Pasta

Are you left or right handed?

I'm a lefty.

**If you could change one thing
about the world, what would
it be?**

No smoking or drugs



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

Caroline

Page

at pbskids.org/zoom

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



ZOOMgames

Try out games you've seen on ZOOM.



ZOOMer 101

Quiz yourself about the ZOOM cast.



Backpack

Find out whether your backpack is heavier on certain days of the week.



ZOOMzones

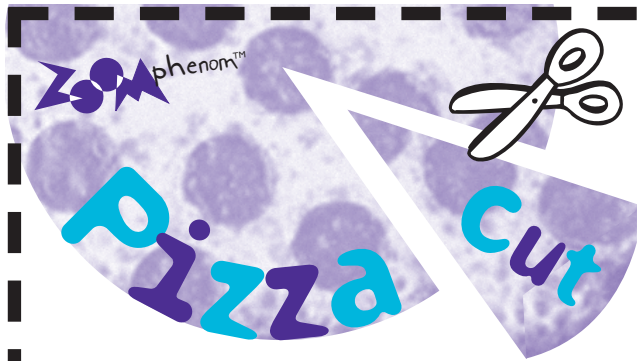
Find museums that have ZOOM exhibits.



How well do you know the ZOOM cast? Try to answer questions like these:

- Who likes to go on picnics?
- Whose favorite café ZOOM recipe is "Popcorn Toppings?"

Visit ZOOMer 101 to find out!



Liann e-mailed ZOOM this challenge:

Find a way to cut a pizza into **8 even slices** by making only **3 cuts**.

First, make a **fake pizza** out of a piece of **paper**. (Cutting a real one could get kind of messy!) Then get a pair of scissors and figure out how to **cut it**.

Did you solve it? Now try this!

- What's the **smallest** number of cuts that you need to make **8 equal slices**?
- **How many slices** (of any size) can you make with only **3 cuts**?

3



Do you have fun math puzzles for other kids to solve? Send them to ZOOM, Box 350, Boston, MA 02134 or pbskids.org/zoom



Alphabet Backwards

You know your ABC's.
But how well do you know
your ZYX's?

See if you can say the
alphabet backwards.

Sent in by Samantha P.
of Grayslake, IL

How to speak Ubbi Dubbi™

Just add "ub" before each vowel
sound. Accent the "ub" each
time it comes up. Whubat's
yubour fubavuborubite
ZUBOOM rubecubipube?

Use the Ubbi Dubbi
translator on ZOOM's Web site to
turn Ubbi Dubbi into English.
uband Ubenglubish ubintubo
Ububbubi Dububbubi.



TM/© 2002 WGBH Educational
Foundation. All rights reserved.
ZOOM and the ZOOM words and
related indicia are trademarks of
the WGBH Educational Foundation.
Used with permission.

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.

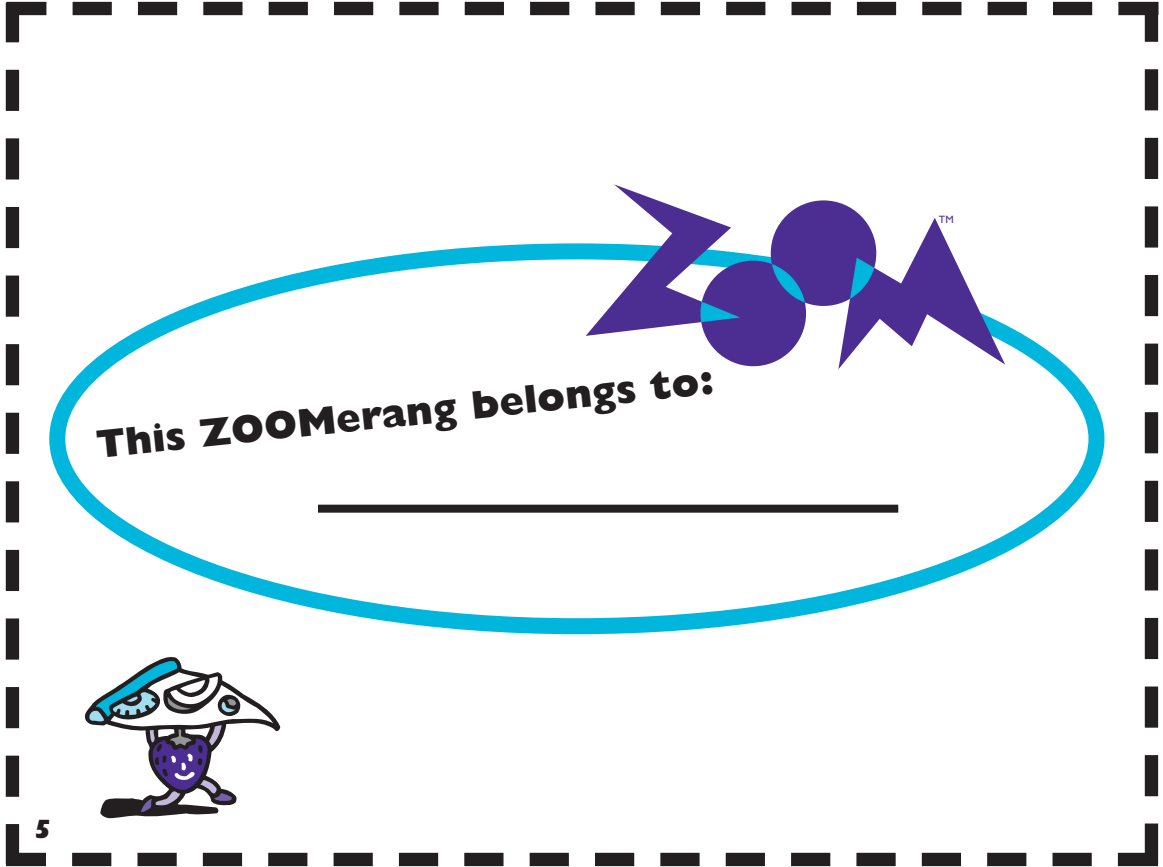
Any opinions, findings, and
conclusions or recommendations
expressed in this material are those
of the author(s) and do not
necessarily reflect the views of the
National Science Foundation.

All submissions become the prop-
erty of ZOOM and will be eligible
for inclusion in all ZOOMmedia.
This means that we can share your
ideas with other ZOOMers on TV,
the Web, in print materials, and in
other media. So, send it to ZOOM.
Thanks!

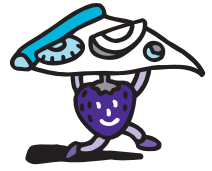
Illustrations: Stephen Schudlich
Photos: Mark Ostow



204 0004012



This ZOOMerang belongs to:





The Arthur
Vining Davis
Foundations



Thanks for
writing
to ZOOM!



ZOOM erang™



Glass Xylophone

Tap some tunes with a spoon and 8 glasses of water.



What You Need

- 8 drinking glasses of the same size and shape
- container of water
- metal spoon

Sent in by Christian L.
of Portland, OR

Place the glasses on a table so that they're lined up, but not touching. **Fill** each glass with a **different amount** of water. Then with a spoon, **tap** on each glass in the same place. What do you **hear**?

How does the **amount of the water** in the glass affect the sound? Change the amount of water in each glass until you have the notes to **play** "Mary Had a Little Lamb."

Find **new ways** to change the sound. What happens if you use glasses of **different shapes**? Try using a **different liquid**, like milk. Change one thing (that's the variable), and predict what you think will happen. Then test it and send your results to ZOOM, Box 350, Boston, MA 02134 or pbskids.org/zoom



Science Scoop

Sound is made when something vibrates. When you hit a glass with water in it, the glass and water vibrate. You hear these vibrations as sound. When you add more water to the glass and hit it again, the glass vibrates more slowly and you hear a different sound. Does the sound get higher or lower as you add more water to the glass?

Look for other music-makers, like Straw Trombone and Super-Sounding Drum, at pbskids.org/zoom/sci



'Ulu maika

Like to bowl? Try this Hawaiian game.

Play this game **outside**. Gather some **tennis balls** and two 2-liter **soda bottles full of water**. Place the soda bottles about **6 inches apart**. Make a playing field by drawing **two lines** on **opposite** sides of the soda bottles. The lines should each be about **30 feet** away from the bottles. Each player **stands** on one of the lines and tries to **roll a ball** between the soda bottles.

The player who rolls the ball between the soda bottles **five times** wins!

Have a good idea for a game? Send it to pbskids.org/zoom/games





Sent in by Amber A.
of Hoolehua, HI

Did You Know?
'Ulu maika (say
"ooloo-mike-uh")
used to be played
with slices of green
breadfruit called 'ulu
and wooden stakes.



If I Were King

If I were king, things would change.
Everything would rearrange!
Up would be down, down would
be up
And chocolate chip cookies would
be drunk in a cup!
Homeless people would have a
place to live
Greedy people would try to give.
Pollution of Earth wouldn't
be around
Clean air and streets would be all
to be found!
If I were king, things would change.
Everything would rearrange!



E-mailed by Kara & Kristin

Magic Disk

Spin two cups and make a round ball magically appear!

Sent in by Erich N.
of Oshkosh, WI



D

Zoomphenom™

What You Need

- 2 clear plastic cups
- masking tape
- colored markers

Tape two cups together so that the open ends are touching. **Color** the tape with a marker. Place the taped cups on their sides, and **spin** them like you would spin a top. **Look** at the cups from the side and from above. What do you see?



Science Scoop

See the circle of tape that attaches the cups? When you spin the cups, this circle of tape also spins. If the cups spin fast enough, the images of the parts of the circle move so quickly that your eyes and brain can't see them separately. Your brain blends the images of the circle together, making you think you see a "magic" round ball.

What happens if you use more than one color or draw patterns (such as stripes) on the tape? What might you see if you spin the cups faster or slower? Think of one thing to change (that's the variable), and predict what you think will happen. Then test it out and send your results to ZOOM at pbskids.org/zoom



Trick your eyes
with Thaumatrope
and Afterimage at
pbskids.org/zoom/sci

E

Café



Dess

What You Need

- sugar cookie dough (store-bought or homemade)
- 8 ounces cream cheese
- 1 cup sugar
- 1 teaspoon vanilla
- fruit (like strawberries, apples, and blueberries)
- greased cookie sheet
- rubber spatula

E-mailed by David



ert Pizza

Pizza—it's not just
for dinner any more!



Make a Crust

Check with a grown-up before you start. **Preheat** the oven to 350 degrees. On a greased cookie sheet, **press** the dough out into a large thin circle. **Bake** it for about 8 minutes. Take it out of the oven, and let it **cool**.

Add Sauce and Toppings

Mix the sugar, vanilla, and cream cheese until the mixture is smooth. (It's easier if the cream cheese is at room temperature.) Using a rubber spatula, **spread** the cream cheese mixture over the crust. Now, put the **fruit on top** in any design that you want. **Slice** your pizza and **take a bite!**



How does it taste—
“yumtastic” or “nutritious”?
Tell us what you think at
pbskids.org/zoom/cafe