Learn at Home with PBS KIDS

Shapes

WEDU PBS AT-HOME LEARNING
A Florida Public Media Partnership

WEDU PBS At-Home Learning is presented by

CHARLES & MARGERY BARANCIK foundation

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Hello, Families!

Welcome!

We’re happy to share PBS KIDS activities with you and we hope your family will use them to inspire learning each and every day.

Weekly “Learn at Home” activity packets, encourage children to view, explore, and play alongside their favorite PBS KIDS characters to help develop the skills they need for success in school and life.

Ready for more?

Watch your favorite PBS KIDS shows on WEDU, the 24/7 channel and live stream at pbskids.org/video/livetv!

Find more great learning activities at WEDU PBS At-Home Learning (wedu.org/edconnect)

Happy Learning!

WEDU PBS
PBS KIDS
## Shapes Bingo

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**Instructions**

1. Cut out the 2-dimensional shape along all the solid lines.
2. Fold the shape along the dotted lines.
3. Bring the shape together so the tabs meet. On each tab, put a little glue—not too much!
4. Attach the tabs, and you've got your 3-dimensional object! Can you name the 3-D shape?

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**Materials**

Scissors, Gluestick, Markers

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**Find more games and activities at pbs.org/parents/learn-at-home**
Build a Better Birdbath

It’s all in the column!
After a birdbath mishap, Ruff wonders if a different column would make it stronger. Which shape would support the most weight?

Help Ruff build a better birdbath. Using paper and books, investigate with three different birdbath models to find the strongest design.

Materials:
- Column templates
- Tape
- Books

Instructions:
1) Print the column templates (on the following pages) and construct three different shaped columns—square, triangle, and circle.
2) On a hard surface, stand the three columns on end. Can you predict which shape is the strongest?
3) Place a book on top of the first column to create a birdbath platform. Now place that same book on the second and third columns. Did any of the columns support the book?
4) Now try placing two or three books on the remaining columns. To keep the weight equal, stack the same books on each column. Which was the strongest? Was your prediction correct?

REMEMBER: Columns are most stable with a balanced load. Place the books evenly on top of each column.

More Ways to Play:
- Can you build a structure that holds three or more books?
- Try using more than one column.
- Try using different types of paper.

For more fun, visit pbskidsforparents.org
The Hexagon Challenge

Use your Odd Squad agent skills to solve The Hexagon Challenge. Print out the two pages.

1. Cut out all the shapes from the Shape Box.
2. On the next page, mix and match your shapes to make a hexagon.
3. Record how you did it by drawing the lines of each shape you used like in the example at the top.
4. Reuse your shapes again and again to make more hexagon patterns. Try to find 8 different ways to make a hexagon.

Here’s a hexagon made with 4 triangles and a rectangle.
The Hexagon Challenge

Example

When you are finished with the challenge, check out some possible solutions at www.fredrogers.org/odd-squad-hexagon-solution/

For more printables, go to pbskidsforparents.org
Tangrams

A tangram puzzle uses 7 polygon shapes to create a larger shape or picture.

Cut out the tangram shapes on the next page and then try to complete these challenges:

- Can you use all 7 shapes to recreate the number and animal images show in the pictures?
- Can you create your own shapes or figures using the 7 polygon shapes?
- Can you use the shapes to tell an odd story?

TAKE IT FURTHER
Odd Squad Video: How to Repair Oonabot
http://pbskids.org/video/odd-squad/2365799193
is a perfect video to go along with this activity.

For more printables, go to pbskidsforparents.org

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TANGRAMS

TAKE IT FURTHER:
Try these shapes too!

Cut out each shape.

For more printables, go to pbskidsforparents.org
Mystery Object
Fold the 2-D shape to make a 3-D object!

Materials □ Scissors  □ Gluestick  □ Markers

Instructions
1. Cut out the 2-dimensional shape along all the solid lines.
2. Fold the shape along the dotted lines.
3. Bring the shape together so the tabs meet. On each tab, put a little glue—not too much!
4. Attach the tabs, and you’ve got your 3-dimensional object! Can you name the 3-D shape?

Make Connections to...

Science
Chemists draw 2-dimensional pictures of molecules to show how they string together in the 3-dimensional world. In medicine, doctors use 2-dimensional x-rays to better understand our 3-dimensional bodies.

Engineering
Structural engineers use plans and blueprints that are 2-dimensional versions of 3-dimensional structures. Industrial engineers design packaging that starts out as flat shapes that can be assembled into 3-dimensional containers.

For more activities, visit pbskidsforparents.org
Can you find these shapes around your school or in the buildings in your neighborhood? Draw a picture of the shape and where you found it.

Rectangle

Circle

Half Circle

Triangle

Find more games and activities at pbskidsforparents.org