

PAPER TOWER SHAPES

Can you stack the odds in your favour?
Find out which shape makes the
strongest tower!



MATERIALS NEEDED



**Sheets of
A4 paper**



Tape



**Pencil or
pen**



Ruler



Books

INSTRUCTIONS

Step 1 Make the triangular tower



Use a ruler and pencil to
divide a piece of paper
horizontally into three parts.



Fold along the lines, then
secure the **short edges** of the
paper with tape to make your
triangular tower!

Step 2 Make the square tower



Take another sheet of paper
and fold it **horizontally** into
half. Next, fold each half
towards the centre.



Secure the **short edges** of the
paper with tape to make your
square tower!



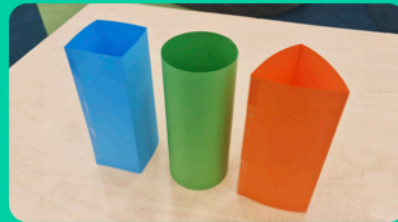
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INSTRUCTIONS

Step 3 Make the circular tower



Secure the **short edges** of the paper with tape to make your circular tower!



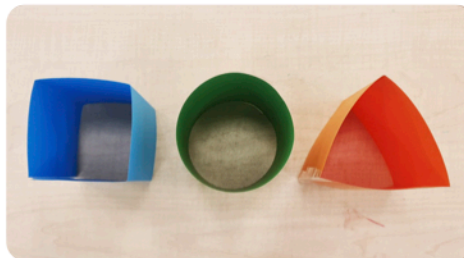
Your towers are complete!

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Before you start stacking...

Ask yourself:

Which tower will hold the most books? Why do you think so?



Step 4 Let the experiment begin!



Make sure your towers are on a **flat surface** and carefully stack as many books as you can on top of each tower (**keep count of the books**). Keep stacking the books until each tower falls down!

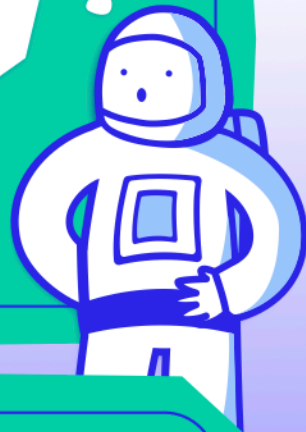
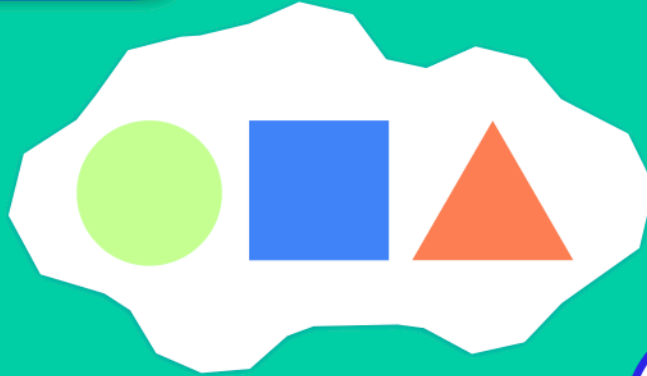


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AFTER THE EXPERIMENT

Ask yourself:

- Which tower held the most books? Why do you think that is?
- Which tower held the least books? Why do you think that is?
- What other tower shapes can you make?



DID YOU KNOW?

The Mighty Cylinder!

Why is the circular tower so strong?

Your circular tower was able to hold up the most books due to its **cylindrical shape**.

Cylinders are strong because their round shape **spreads pressure evenly**, so they don't bend or break easily.

