What's the tallest tower you can build with just 2 sheets of newspaper?

Tower

What You Need: • 2 sheets of newspaper

ruler

Engineering Scoop

How can you make a **weak** material like newspaper **strong** enough to stand up? One way is to **change its shape**, like rolling it into a tube, crumpling it, or pleating it with folds. You also need to think about the different **forces** that are acting on it.The tower's **weight** is pulling the tower down. The **surface** on which the tower is resting is pushing back up. Small **air movements** are also pushing from the side and can blow the tower over. If you build a **wide base** at the bottom, this distributes the weight over a wider area and makes the tower more **stable**.

PBS

Build the tallest tower you can. You can bend, tear, crumple, or roll the newspaper.

2 Try to make the tower taller. Keep redesigning it until you can't go any higher.

3 Use the ruler to measure the height of your tower. It must stand for at least 30 seconds without falling over.



How can you make your tower even taller? What happens if you add 20 cm (about 8 in.) of **tape**? What happens if you use **books** as a foundation to support the bottom of the structure? Or, what happens if you use a different type of **paper**, like tissue paper, copier paper, or cardboard? Choose one thing to change (that's the **variable**) and make a **prediction**. Then test it and send your results to ZOOM.

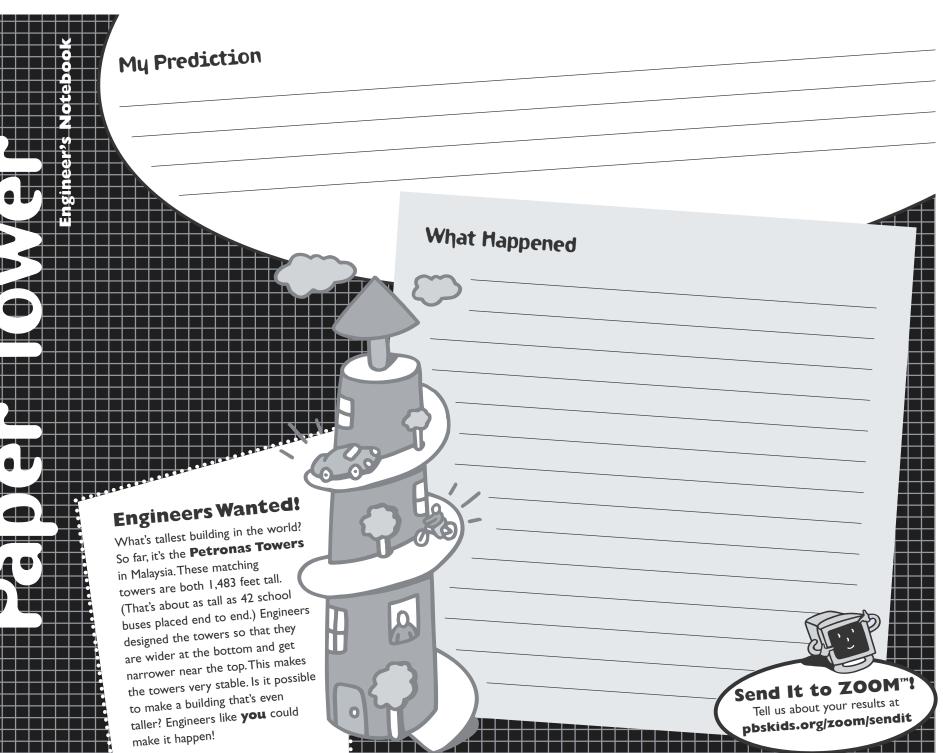






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