

Build Your Own Eiffel Tower

During the 1889 World's Fair, there was a competition for architects and designers to see who could design a 300-meter tall tower, (that's over 1000 feet!) with a base of only 125 meters across or 400 feet. Gustave Eiffel's design was the winner and the tower was named after him. The tower itself is a triangle and throughout its design, you can see many triangles, one of the most stable shapes in nature.

YOU WILL NEED

- Newspapers
- Tape or a stapler
- Rubber bands
- Pen or pencil
- Paper

STEPS

1. Plan different ways you could approach building your tower. Draw all of your ideas on a piece of paper.
2. Place one sheet of newspaper on a flat surface so it looks like a diamond.
3. Tightly roll the bottom corner up to the top corner so you make a thin tube out of the newspaper.
4. Secure with tape or staples.
5. Connect the paper tubes using tape or rubber bands based on your blueprint.
6. As you build your tower, make sure to test for stability. Can you blow it over? Can you put on of your toys on top without it falling over? How can you make your tower stronger?
7. Continue to adapt your tower until you have the structure you want.

