

HOMEMADE WATER BOMB

ENGINEERING CHALLENGE 19

Designed by Louis,
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The brief

Make your own water bomb out of paper.

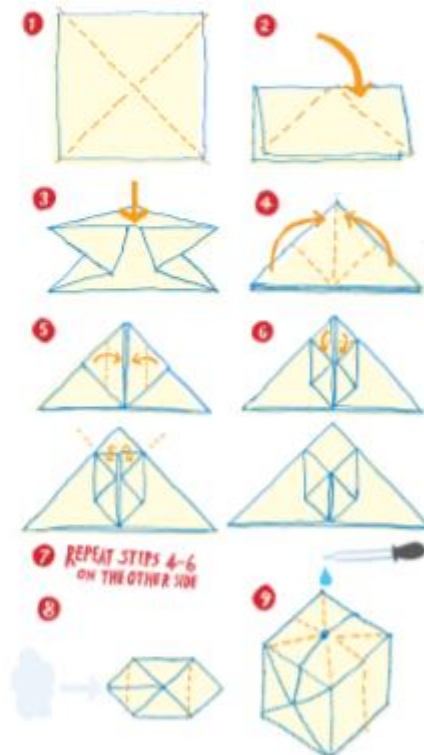
The method

1. Take a square piece of paper, fold it in half diagonally to create a crease and unfold. Repeat in the opposite direction so you have an 'x' shape.
2. Flip the paper over and fold in half top to bottom.
3. Flip the paper over again and press down in the middle, while folding in the flaps on the side. You should get a triangle.
4. Take the flaps on the front side and fold them up to the middle.
5. Fold the side corners to the middle line. This should create little pockets.
6. Take the flaps above the pockets and push them in to the pockets.
7. Repeat steps 4 – 6 on the other side.
8. Blow in the little hole in the bottom to inflate.
9. Use the pipette to fill your water bomb.

Materials

Square piece of paper

Water and a pipette



Design icons

Christchurch Cathedral in New Zealand is made from 98 giant cardboard tubes and designed to last for up to 50 years. The tubes are coated with three layers of waterproof polyurethane.

The cathedral was designed by Shigeru Ban, a Japanese architect who has been building with cardboard since 1986. The new cathedral is earthquake-proof, fireproof and won't get soggy in the rain.

How does it work?

Folding paper makes it more rigid.