



# Try this at home! Make your own dome



## TAKE HOME KIT:

- tube roller
- bag of nuts and bolts

To make strong structures you will also need:

- A4 paper
- sellotape or masking tape
- scissors
- hole punch – an ordinary hole punch will do!

A **geodesic dome** is made of interlocking triangles. These domes are particularly strong because the loads are spread over many triangles. Try making this simple dome at home.

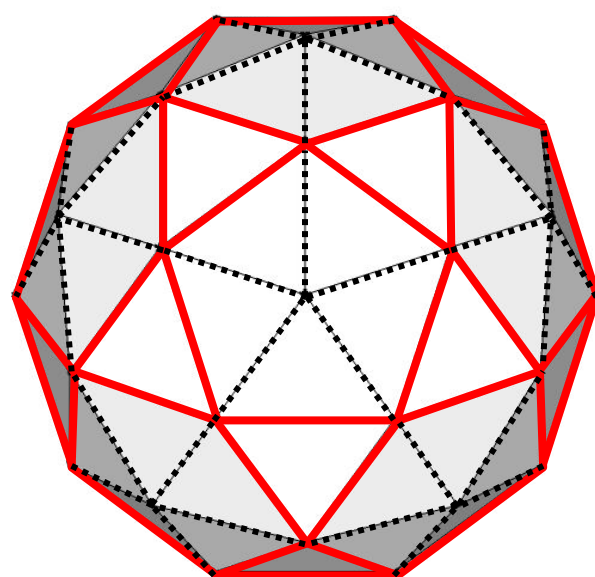
1. You will need to roll
  - 35 tubes of length 30cm (long side of A4 paper)
  - 30 tubes of length 26cm. You can either cut the paper to length 26cm before rolling or cut the rolled tube.

☺ **Top Tip:** Mark the shorter tubes with a coloured pen. This will help you to identify the 2 different lengths later.

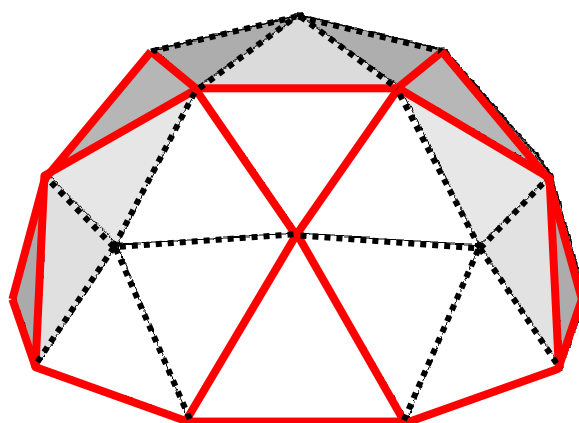
2. Lay out 10 long tubes to make a large circle, this is the base.

3. Build up the dome row by row working from the base circle up towards the top.

☺ **Top Tip:** Visit this great on-line tutorial for a rolled newspaper dome  
[www.yesmag.ca/projects/geodesic.html](http://www.yesmag.ca/projects/geodesic.html)



— long tube      ..... short tube



## IDEAS TO TRY AT HOME

- Make it weather proof by replacing the paper with acetate sheets (used for overhead projectors transparencies).

- Try a larger and more complicated design. Go to [desertdomes.com/domecalc.html](http://desertdomes.com/domecalc.html) to calculate the number and length of tubes needed for larger designs.

