

How to Make a Pumpkin Bauble

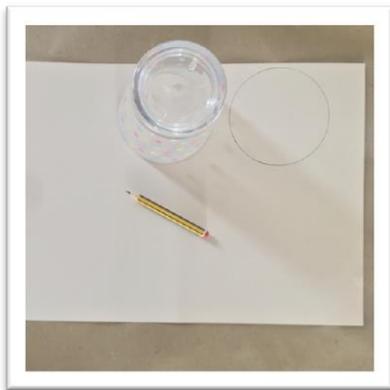


What you will need:

- Paper
- Pencil
- Orange crayons/felt tip pens/pencils (if using white paper)
- Compass or something circular to draw around
- Scissors
- Glue
- String



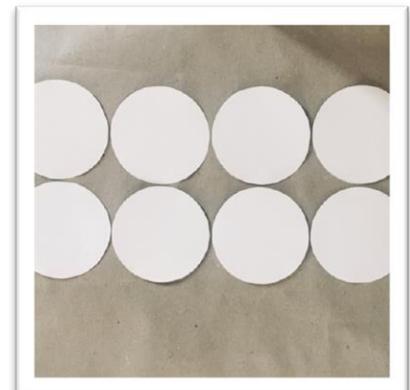
What to do:



1. Draw a circle (you will need 8 circles to make your pumpkin).



2. Top Tip: Folding the paper in half before cutting out the circle will give you two circles. **How many circles will you get if you fold the paper in half again?**



3. Your 8 circles should all be the same size.

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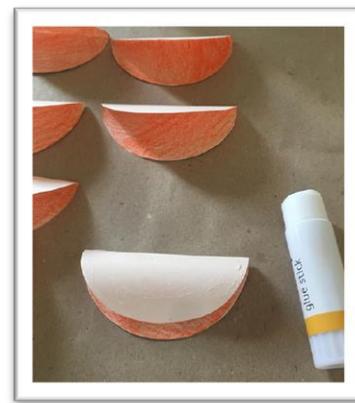
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4. If you have used white paper, you now need to colour your circles orange.



5. Fold each coloured circle in half to make 8 semicircles.



6. Cover one semicircle in glue.



7. Stick another semicircle on top and add glue to that one. Repeat until you have no semicircles left.



8. Open the semicircles out to reveal a sphere shape (your pumpkin!) Place a piece of string along the centre and glue the last semicircle you added to the first.



10. Tie a knot at the bottom of your pumpkin and design your pumpkin face.

Further Challenge

What happens to the 3D shape if you use more/less circles? What if you use a different shape?

Why not try some different designs.

A tea light (battery operated of course) works well in the centre of the pumpkin and makes a great nose!

Why's this maths?

You'll be using your knowledge of doubling and the two times table as you fold paper to create circles, using construction skills to fit shapes together and discovering how flat 2D circles can become 3D spheres. If you choose to do the further challenge you'll be exploring what happens to other 2D shapes if you make them 3D using this method. Exploring shapes in this way is called spatial maths.



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