



FrostArt

'Outside In' workshop instructions

Kite Making,

Includes measuring, cutting, tying knots and cutting cane or dowel.

Understanding shapes, area, weight and balance.

Assistance from adults may be required for this project.

You will need

Plastic bags in all sorts of colours. The thicker ones work well.

Paper, to draw your kite template

Pencil or pen

Marker pens, coloured ones to decorate the plastic if you have plain or white bags.

Ruler

scissors

short canes or dowel, approximately 50 cm

hole punch

Sellotape or other plastic sticky tape, electrical tape works well

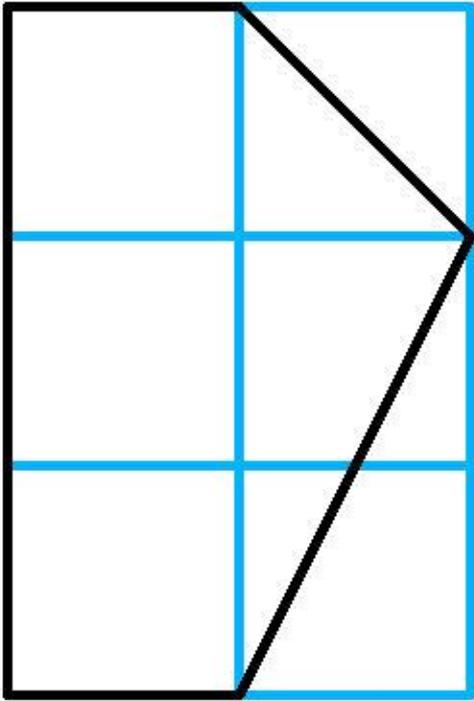
A long reel of string, fine polyester string is best

A small piece of card to wind the string on

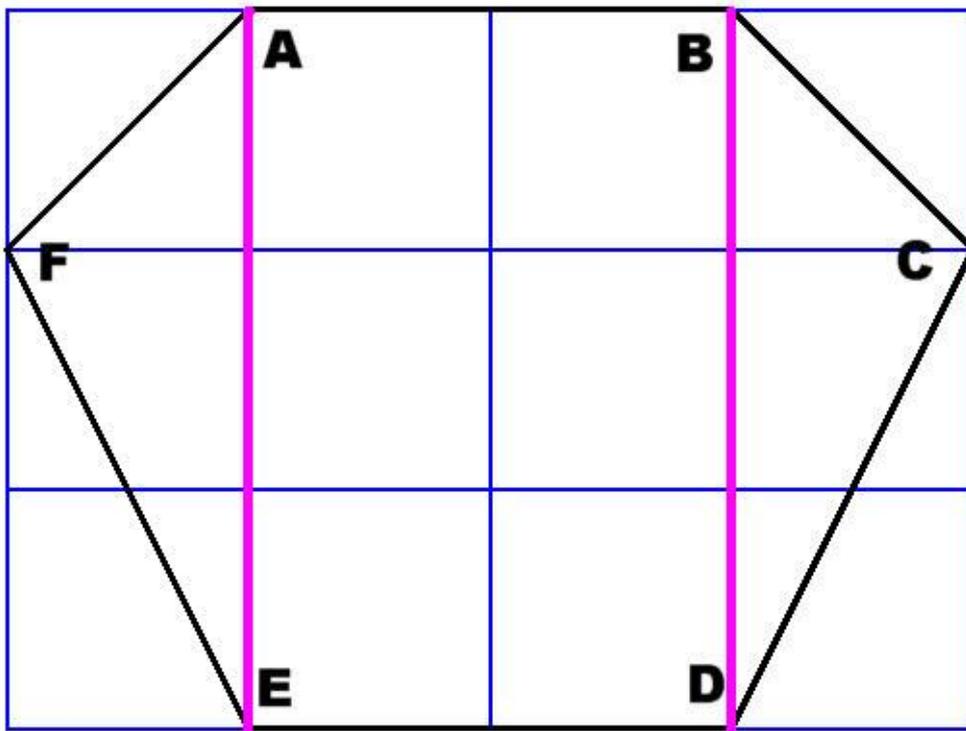
Make your template using a piece of A4 paper.

The picture is of half the kite template, with a fold on the left. It shows how to measure the triangles.

Cut the triangles off and use for the reinforcing of corners.



A4 paper = half the kite template = 21.0 x 29.7 cm



Kite template full size = A3 = 29.7 x 42.0 cm

Reinforce the corners 'F' and 'C' with a couple of layers of tape.

2" wide clear packing tape is best for this, but almost any tape will do.

Punch a hole for string at Corner F and Corner C. Not too close to the edge.

Cut sticks to the right length, this is 29cm for the size here.

Tape the sticks in. One stick goes from Corner A to Corner E. The other goes from Corner B to Corner D.

Measure for The Distance from F to C, times 3, divided by 2, plus a little bit for knots.

This is for 2 strings

Tie one to Corner F and one to Corner C.

Check out the [Kinko's Sled page](#) for detail of this step.

Match the corners of the kite together then tie the strings together with an Overhand Knot, so that the knot is exactly in the middle from F to C.

Said another way, the distance, from the knot to F is exactly the same as the distance from the knot to C.

If the size of the kite is changed, the length of the string between

F & C needs to be **3 times** as long as the distance between F & C.

Too long is better than too short.

You can add strips of plastic to the corners E and D, like ribbons. These sometimes help with the balance of flight. Try it outside and see how it flies before adding anything. The flight will change depending on the strength of wind.

Wind the string onto a piece of card, can be a toilet roll, at least 3 times longer than your height. The longer the better!

When walking around with your kite keep the string wound up, only unroll it when you are flying it.

Kite making references

https://antofthy.gitlab.io/kites/paper_sun.gif

<http://people.exeter.ac.uk/jastaple/kites/projects/sled/sled.html>
[Sled Kite Making Instructions](#)

