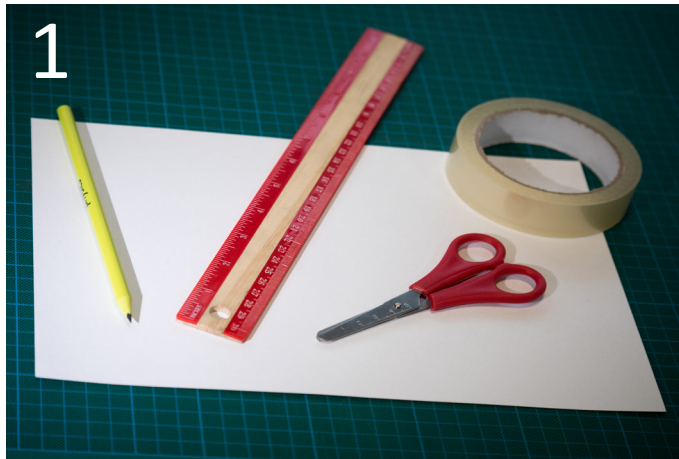# Make: Paper Helicopters

Materials

All that's needed is a sheet of paper, some scissors and some tape!

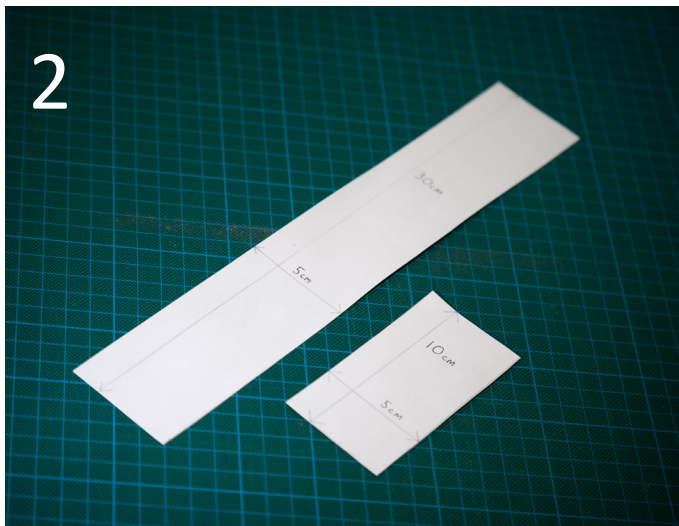You may also need a ruler and a pencil for accuracy.

Could you use different types of paper? How would different types affect the performance of the glider?

Start cutting!

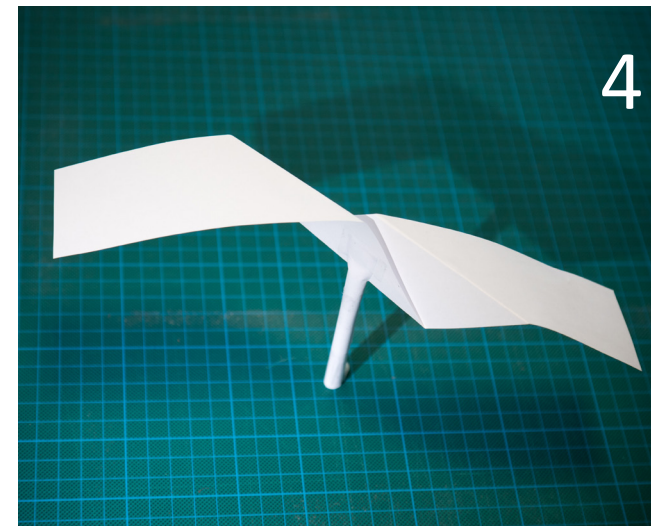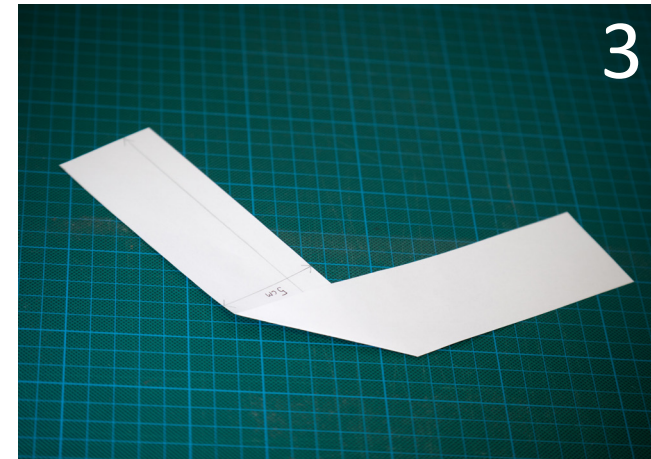Cut a strip of paper that is about 30cm long and 5cm wide.

Now cut out a separate rectangle that is 10cm long and 5cm wide.

Next step

Make a fold in the centre of the larger strip of paper but do it at an angle. (as seen in the picture!)

Using a pencil roll the smaller rectangle into a tube shape and secure with some tape.

Make two cuts at one end of the tube so the 'v' shape of the strip can slide in.

Let it go!

Make sure the two parts are held together securely (add some tape if needed).

Now experiment with bending and folding the blades so that they resist the air as they fall.

When it is allowed to free-fall through the air it spins very quickly and this slows the descent.

Try and try again...

Your Paper Helicopter is pretty cool but how long does it stay in the air?

Keep making changes and testing how long it takes to travel from a certain height to the ground!

Get as high as you safely can and drop your helicopter to see how it falls.

Use a stopclock to measure its drop time!