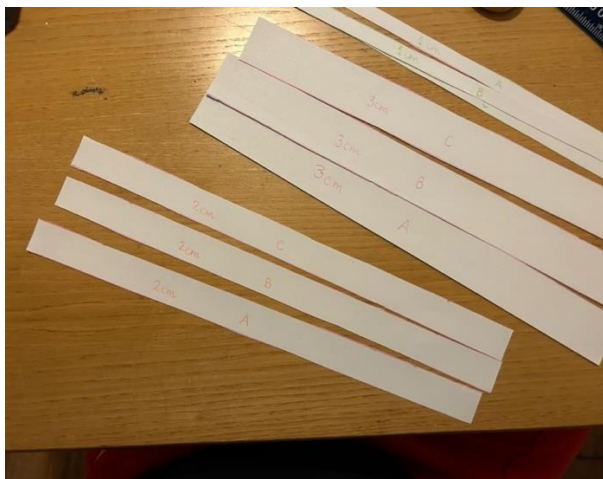
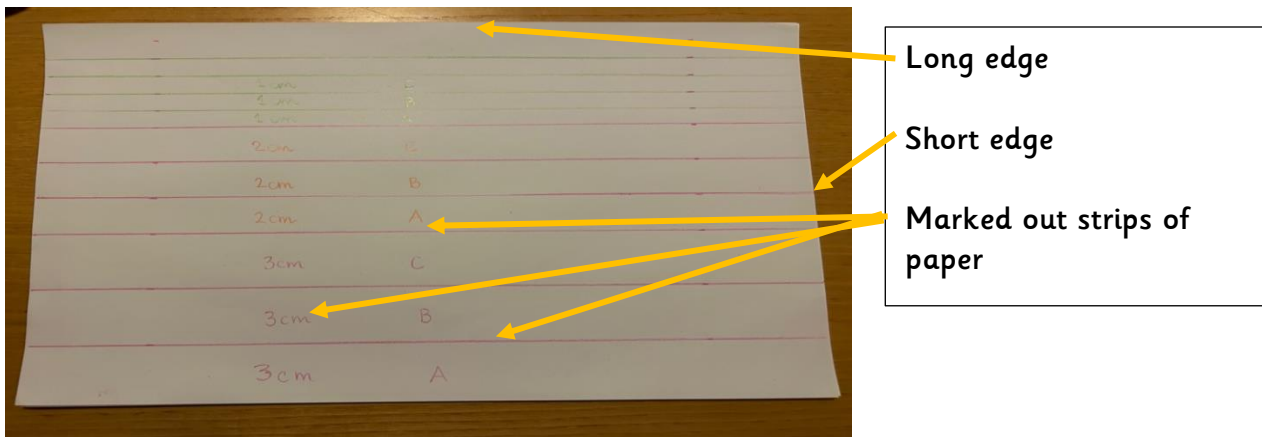


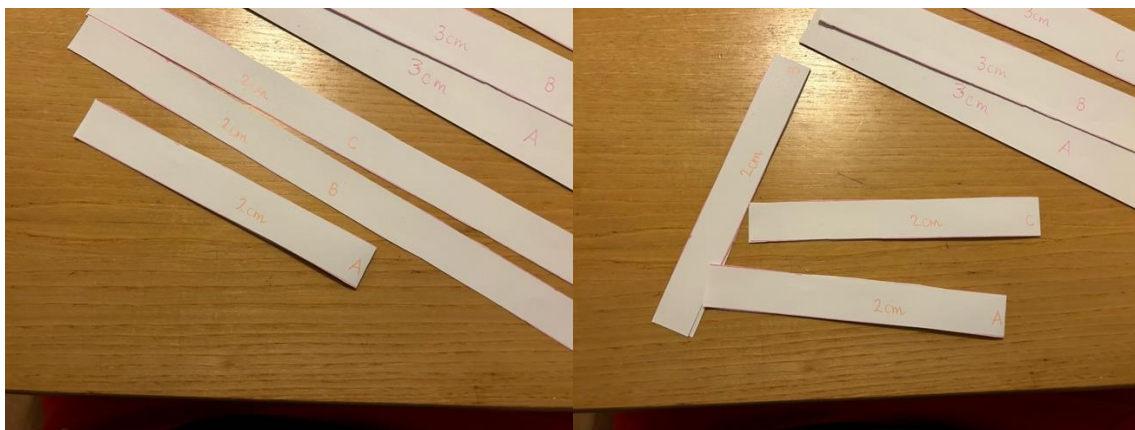
BRITISH SCIENCE WEEK HOMEWORK: MARCH '23 – MAKE A HELICOPTER

1. Cut three strips of paper of equal width e.g. 2cm wide. Cut them along the long or the short edge of the paper. If you are going to experiment with the width, use the long edge of the paper.



Cut out the strips of paper

2. Fold each strip in half along the length.

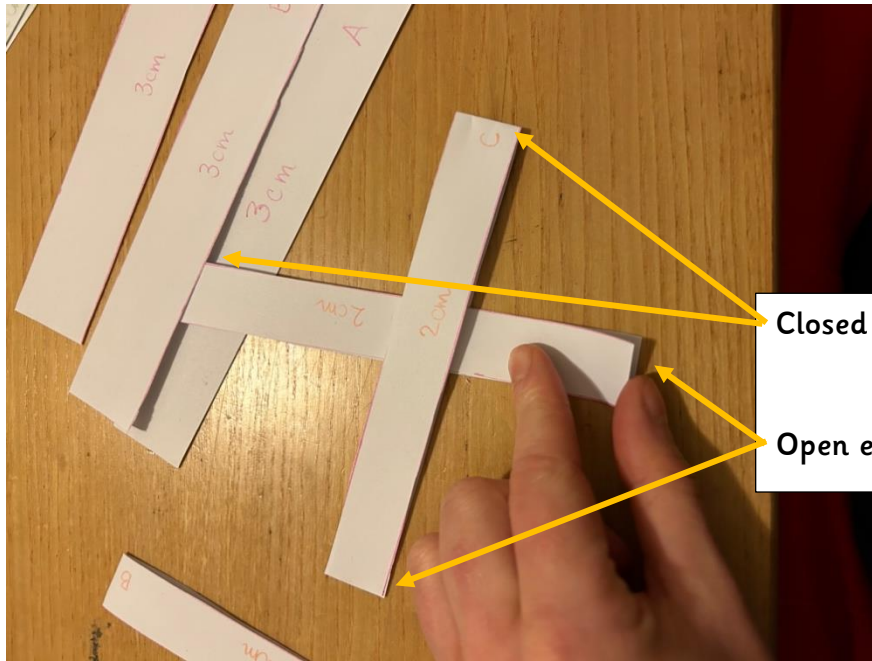


BRITISH SCIENCE WEEK HOMEWORK: MARCH '23 – MAKE A HELICOPTER

3. Take one of the folded strips and open it up. Place another strip inside, noting which end is open and closed.

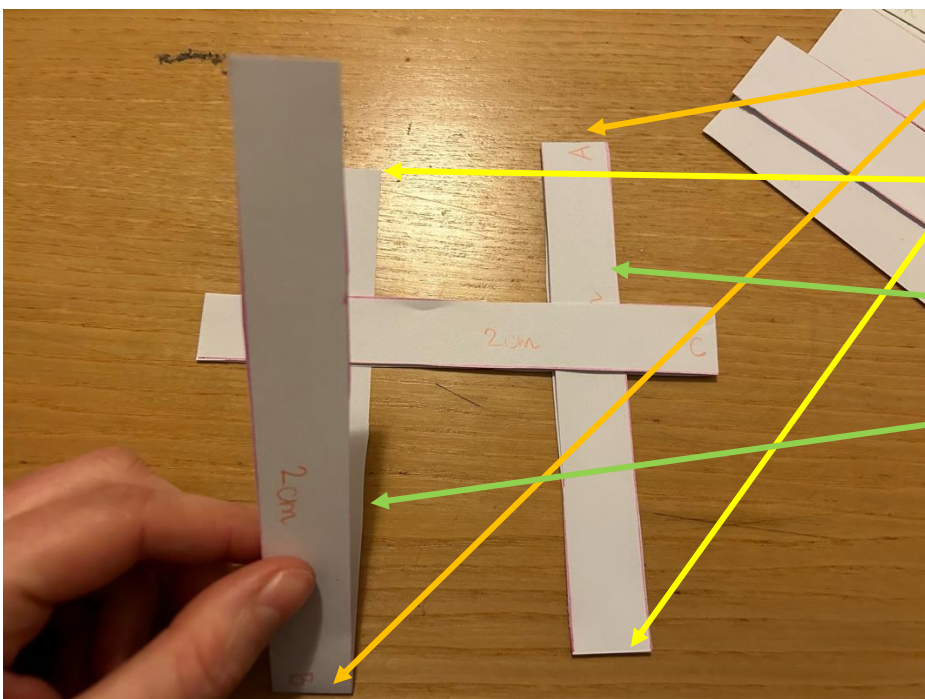


Strip A is completely enclosed in strip C



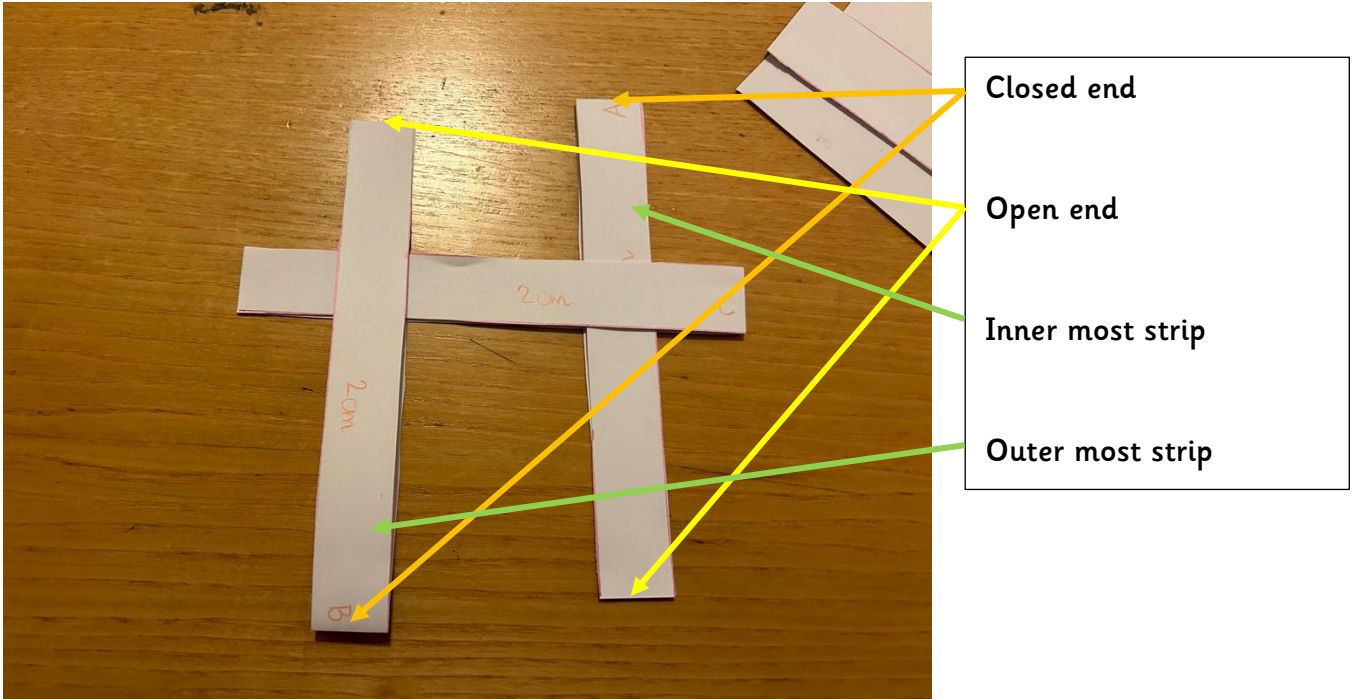
Closed end
Open end

4. Take the final strip and place it round the outer most strip, making sure the open and closed ends are the opposite way round to the inner most strip.

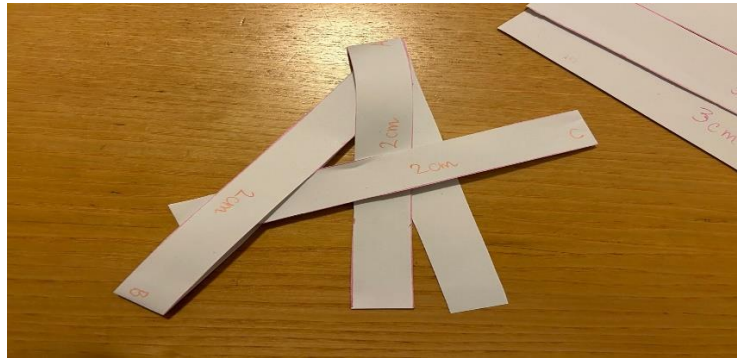


Closed end
Open end
Inner most strip
Outer most strip

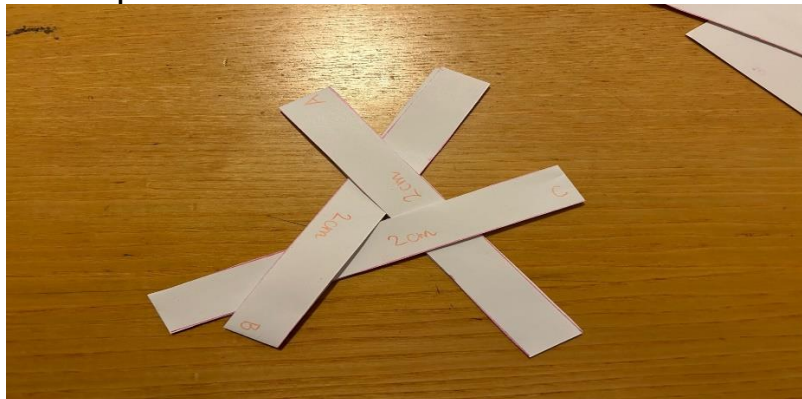
BRITISH SCIENCE WEEK HOMEWORK: MARCH '23 – MAKE A HELICOPTER



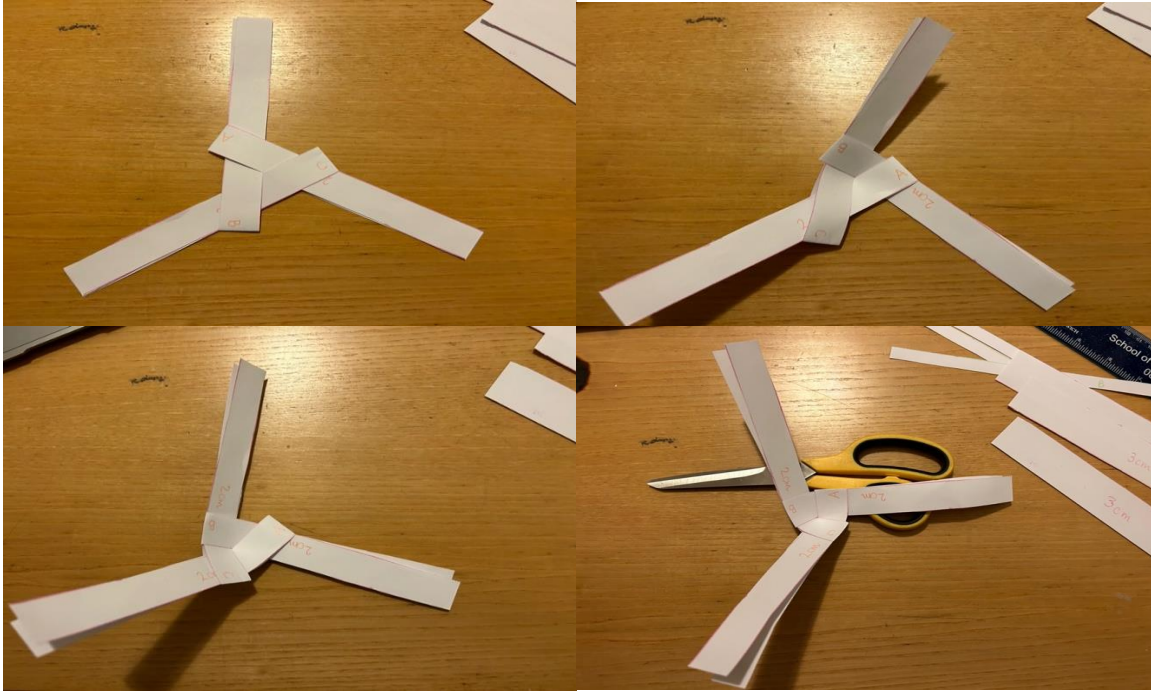
5. Take the open end of the outer most strip, and thread it through the inner most strip, at the closed end.



6. Gently pull each open end and push the closed ends towards each other, until they meet in the centre. You may want to place some Sellotape over the closed ends in the centre in case the helicopter comes apart.



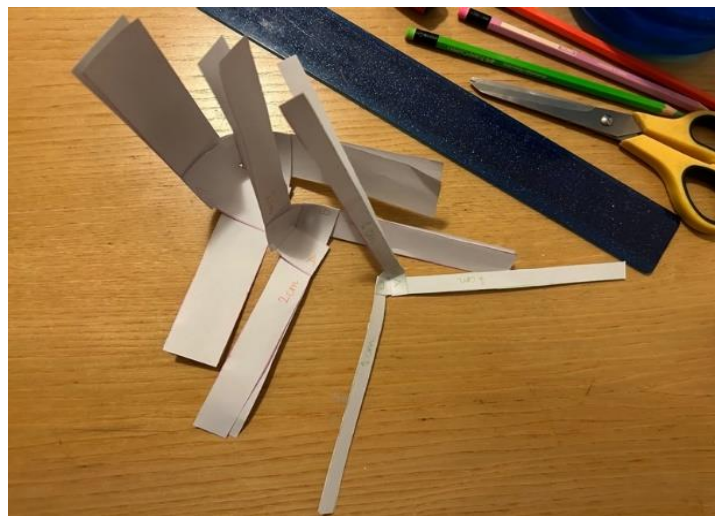
BRITISH SCIENCE WEEK HOMEWORK: MARCH '23 – MAKE A HELICOPTER



7. Drop the paper helicopter from somewhere high and see if it spins!

Challenge

Try making more helicopters with either a different thickness (width) strip (like mine below – which are 1cm and 3cm thick), or a different length strip.



What happens when you drop the helicopters from the same height – do they take the same amount of time to reach the ground?