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## Dessert - Folding a Columbus Cube (25 marks)

In this round you are going to make some Columbus Cubes.

Each cube is made from six paper squares.

You have enough squares to make up to 4 cubes.

You will be scored for

- Each correctly folded side
- Each complete cube
- The highest tower you can make with your cubes



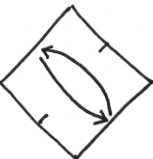
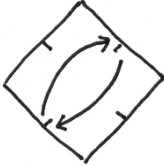

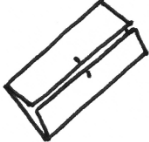
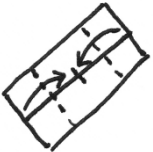
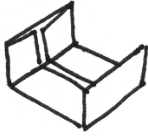



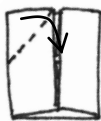
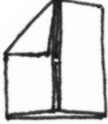


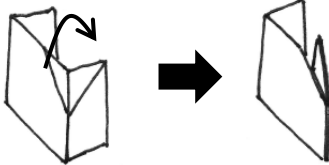
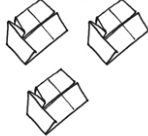
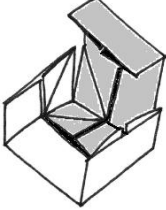
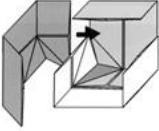

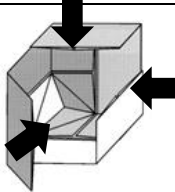


<p>1. Fold the paper to find a point half way along each side. Make a small crease to mark it but try not to crease the centre of the paper.</p> 	<p>2. Do the same to find the half-way points for the other two sides.</p> 
<p>3. Fold in the opposite edges so they meet along the centre line of the paper. <b>Make strong creases along your folds.</b></p> 	<p>4. It should now look like this:</p> 
<p>5. Fold the other two edges in so they meet along the centre line. Make strong creases along your folds.</p> 	<p>6. Open out the last two folds you made.</p> 
<p>7. Make six of these "modules".</p> 	<p>8. Take <b>three</b> of your "modules". You are going to adapt these.</p> 
<p>9. Fold down the two flaps on each of these three "modules" to make a square.</p> 	<p>10. Fold the top left-hand corner in to make a 45° crease. <b>Crease it firmly.</b></p> 



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<p>11. It should now look like this:</p> 	<p>12. Open your last fold back out, turn your module over and then fold it the other way along crease you've just made.</p> 
<p>13. Open the fold back out. The "module" should look like this:</p> 	<p>14. Push the corner in as shown:</p> 
<p>15. You need <b>three</b> of these. <b>They must be identical.</b></p> 	<p>16. Interlock two of the modules. They need to be held together by hand at this stage.</p> 
<p>17. Lock it all together with the third one of these "modules".</p> 	<p>18. It should look like this:</p> 
<p>19. Complete the cube by interlocking the remaining three simple "modules" to the outside of the object you made in 18.</p> 	<p>20. The finished cube should look like this: If all of the faces are interlocked correctly then no glue or tape is needed to hold it together.</p> 
<p>21. Once you have made more than 1 cube, you can stack them, like this:</p> 	<p>There are bonus marks for making a tower of cubes.</p>