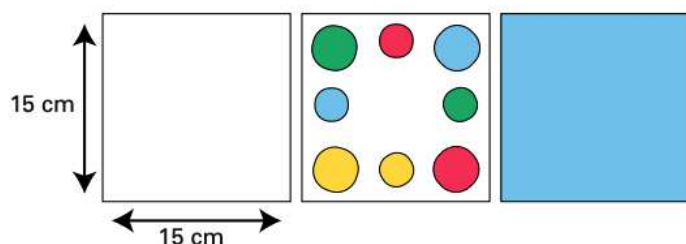


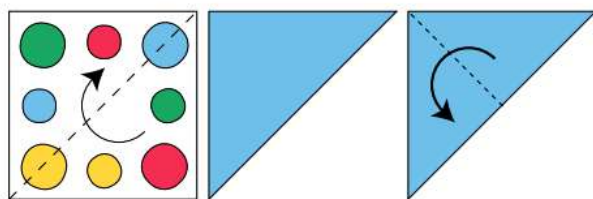
Make a Kinetic Pinwheel

Read the instructions below and refer to the illustrations to build a kinetic pinwheel sculpture. Keep in mind that your sculpture does not have to look exactly like this one.

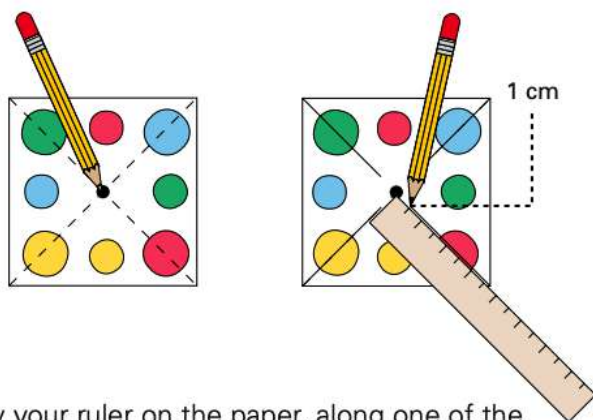
1. Start with a 15-cm square piece of paper. Decorate both sides of the sheet of paper.



2. Fold the square in half to make a triangle. Then fold the triangle in half, to make a smaller triangle.

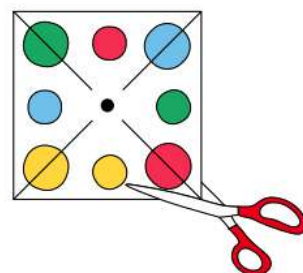


3. Unfold the paper. Use your pencil to put a dot in the center of the square, where the four fold lines meet.

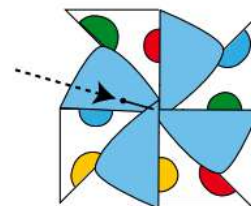
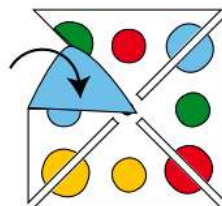


4. Lay your ruler on the paper, along one of the folds. The top of the ruler should be on the center dot. Starting 1 cm below the dot, draw a line to the corner of the paper. Repeat this step to draw a line to each remaining corner.

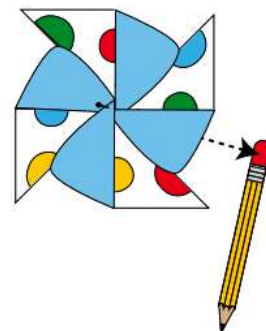
5. Cut along the lines you have drawn. Be sure to stop cutting before you reach the center dot at the end of each line.



6. Fold every other point in toward the center. The points should reach a little beyond the dot.
7. With four points folded down over the center, push a straight pin through all four points and the center dot.



8. Push the pin into—but not all the way through—the eraser on your pencil.
9. Smooth out the creased edges a little, to open and puff out the pinwheel.



Consider this. *What kind of power makes the wheel go around? What real-life machines work the same way?*

