How To Make A PAPER PINWHEEL

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from Mr. Slaptail’s Curious Contraption and for
The Science of Global Atmospheric Change

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How to Make a Paper Pinwheel

**Materials:** Square of paper (about 10 to 15 cm), colored markers, crayons or decorative stickers, pencil with full eraser, ruler, scissors, straight pin.

**Procedure**

1. Start with a square piece of paper.

![Fold one](image1)

2. Decorate both sides of the sheet of paper.

![Fold two](image2)

3. Fold the square in half to make a triangle.

4. Fold the triangle in half, making a smaller triangle.

5. Now, unfold the paper. With your pencil, put a dot in the center of the square, where the four fold lines meet.

6. Lay your ruler on the paper, from the dot along one of the folds to the corner.

Starting 1 cm away from the dot, draw a line from there to the end of the point at the corner.
7. Draw a line to each of the other three corners, starting 1 cm from the center.

8. Cut on the lines you have drawn. Be sure to stop cutting before you reach the end of each line.

9. Fold every other point in toward the center, over the center dot. The points should reach a little beyond the dot.

10. With four points folded down over the center, push a straight pin through the center of the paper and all four points. Once the straight pin is all the way through the paper, push the pin into the eraser on your pencil. Do not push the straight pin all the way through the eraser.

11. Smooth out the creased edges a little, to open and puff out your wheel.

You have made a pinwheel!
Wave it in the air or blow on it to make it go around.

I wonder? What kind of power makes this wheel go around? What real-life machines work the same way?