Moebius Strip Activities

Materials:

Long rectangular strip of card stock or paper Scissors Tape

- Cut a long strip of paper. The strip should be about 1 centimeter across, and the length, l, should be much longer than the width, w.
- Bring the ends together to make a simple loop.
- Before attaching the ends together, add a single half-twist to one side of the strip (as in the image to the right). The result should look something like this. You have made a Mobius strip.





This wood frame costs \$199 at WalMart. \rightarrow



Your activity:

- 1. Make a Moebius strip using the directions above.
- 2. Put a dot on one side of the paper in the middle (of the paper's width). Do you suspect that your dot is on the inside or outside of the strip? _____

Then use a pen, pencil, or marker to start drawing a line in the middle of the paper from that point. Keep going. Any surprises?

Now, based on your dot work, does the paper have an inside or an outside? ______ Therefore, a Mobius strip has one side (with inside = outside).

How many edges does it have?

- 3. Cut the paper on the middle line as far as you can. What does this process form?
- 4. Take a photo of both your original Mobius strip (from #1) and the one you found in #3. Include this/these photo(s) with the answers to these questions (in #2 and #3).





