

Name			
Date_			

Mobius Strip Activity

Activity: A **mobius strip** is a two-dimensional shape that only has one surface. It was invented by German mathematician August Ferdinand Mobius in the 1800s and is considered a mathematical phenomenon in geometry! We are going to create our own mobius strip today and to understand why this shape is so fascinating!

Materials: Scissors, Tape, pencil

Directions: Cut out the following rectangle below. Then take one end of the rectangle and give it a half twist. Then attach it to the other end of the rectangle using a piece of tape to create a mobius strip.







1) Cut out the rectangle below, then follow the example above to assemble the mobius strip.





2) Take a pencil, and without picking it up draw a line the runs along the entire strip.
3) What do you notice about this shape?
4) Now, try cutting along the line you created. What do you notice here? How has the mobius
strip changed? Describe the differences between each shape.
5) Can you think of any places where we might see Mobius Strips in the real world? (Hint: think of belts that are in a continuous loop that you might see in electronics or cars)

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