

**M**ö**bius Strip**

**Problem solving can be fun! Here is one of the strangest loops you will ever see. It’s called**

**a M**ö**bius strip in honor of the German mathematician who first investigated its properties.**

**To build a M**ö**bius strip, you need a strip of paper about one inch wide and ten inches**

**long. Coil the paper into a simple loop. Then put a single twist in the loop before securing**

**the ends together with a piece of tape. Use a marker to color one side of the strip red and**

**the other side blue. You will soon discover that this loop has only one side!**

**Now, for some problem solving fun!**

**If we place two ants side by side on a M**ö**bius strip and start them off in opposite directions,**

**will they pass each other? If so, at what point? (Answer: Below)**

****

**Answer: No, they will never pass each other. One ant will be walking on the top side of the strip, while** **the other will be on the bottom side.**