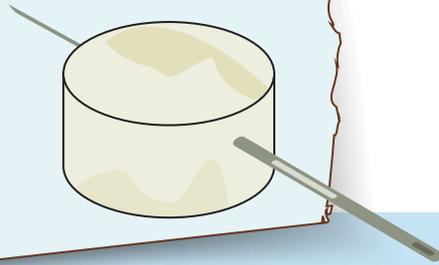


# DIY Compass

How do you think this  
compass works?



## Materials needed

Sewing needle  
Magnet  
Cork  
Medium sized bowl  
Water  
Pliers

## Instructions

- Hold the needle, and stroke your magnet down the length of your needle 50 times to magnetize it.
- Flip the needle around so you are holding the other end, and flip over the magnet so you are using the other side of the magnet. Now repeat on the non-magnetized end of the needle.
- Cut the cork so it is about 1 to 2 cm thick.
- Carefully push the needle through the cork using the pliers with the help of an adult. Make sure the cork is centered on the needle.
- Fill the bowl with water.
- Place the compass you just made in the water and see how it moves. It should align itself so it points North.