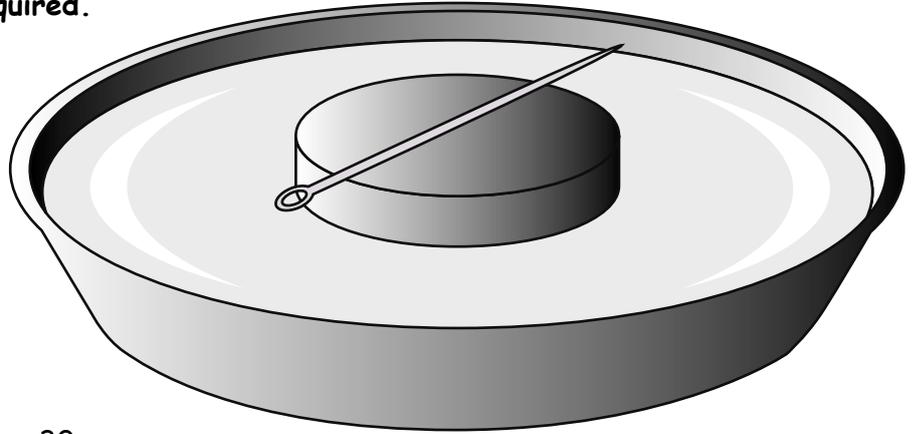


Create Your Own Compass

Please note: adult supervision is required.

What you need

- A needle or a straightened metal paperclip
- A magnet
- A styrofoam cup
- A pair of strong, sharp scissors
- A shallow dish approximately 20 cm - 30 cm in diameter



What to do

1. Stroke the magnet along the needle (or straightened paperclip) from the end to the top 20 times. When you reach the tip of the needle, lift the magnet off and away from the needle before stroking it along from end to tip again. It is important to always go in the same direction and don't go backwards! This will magnetise your needle (or paperclip).
2. Cut the bottom off the styrofoam cup then draw a circle in the middle, using a 20c piece as a guide. Cut out the shape.
3. Fill the dish with approximately 2.5 cm of water and float the Styrofoam circle in the middle of the dish.
4. Carefully place your magnetic needle across the centre of the styrofoam circle and let go. Very slowly, your needle should start to rotate until it's pointing towards north.

Congratulations! You have created your very own compass!