

WATER COMPASS

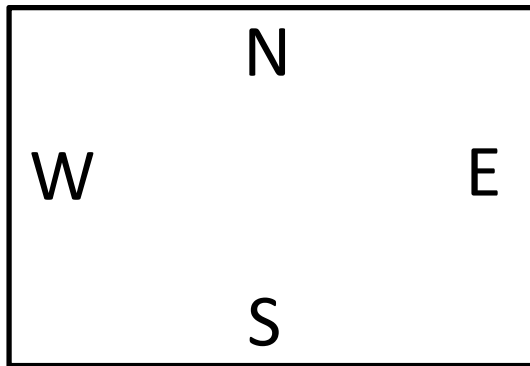
Ready to use a compass, Rangers? The earth has a magnetic field, which allows your little magnetized needle to point north, automatically!

YOU'LL NEED:

- 1 piece of paper
- 1 bowl of water
- 1 sewing needle
- 1 button magnet
- 1 cork
- 1 grown-up

DIRECTIONS:

Draw the directions north, south, east, and west on a piece of paper like so:



Fill a bowl with water and place it in the center of the paper.

Ask your grown-up to use the compass function on his/her cell phone to determine which way is north.

Rub the sewing needle along the button magnet 30-40 times IN THE SAME DIRECTION.

Spear the cork with the needle (you might need a grown-up with pliers for this step).

Gently float the cork-needle on top of the water. It will move, and then stay fixed in one direction.

Is the needle pointing north?

If not, try rubbing it with the magnet some more!