



## Know that magnetic needles always point magnetic north

### Build a leaf compass.



1) Fill a wide bowl with water.

2) Gently stroke a paperclip or needle with a magnet.

#### Equipment

- bowl
- water
- leaf
- needle
- bar magnet



3) Gently place your leaf on the water so it floats in the middle of the bowl.

4) Gently place the magnetised needle on the leaf.

5) Let the leaf move freely and the needle will point North.

**Stretch & Challenge:**  
Does it make a difference which end of the magnet points at the compass? Explain your idea.



What do you think will happen if you put your magnet near your compass?

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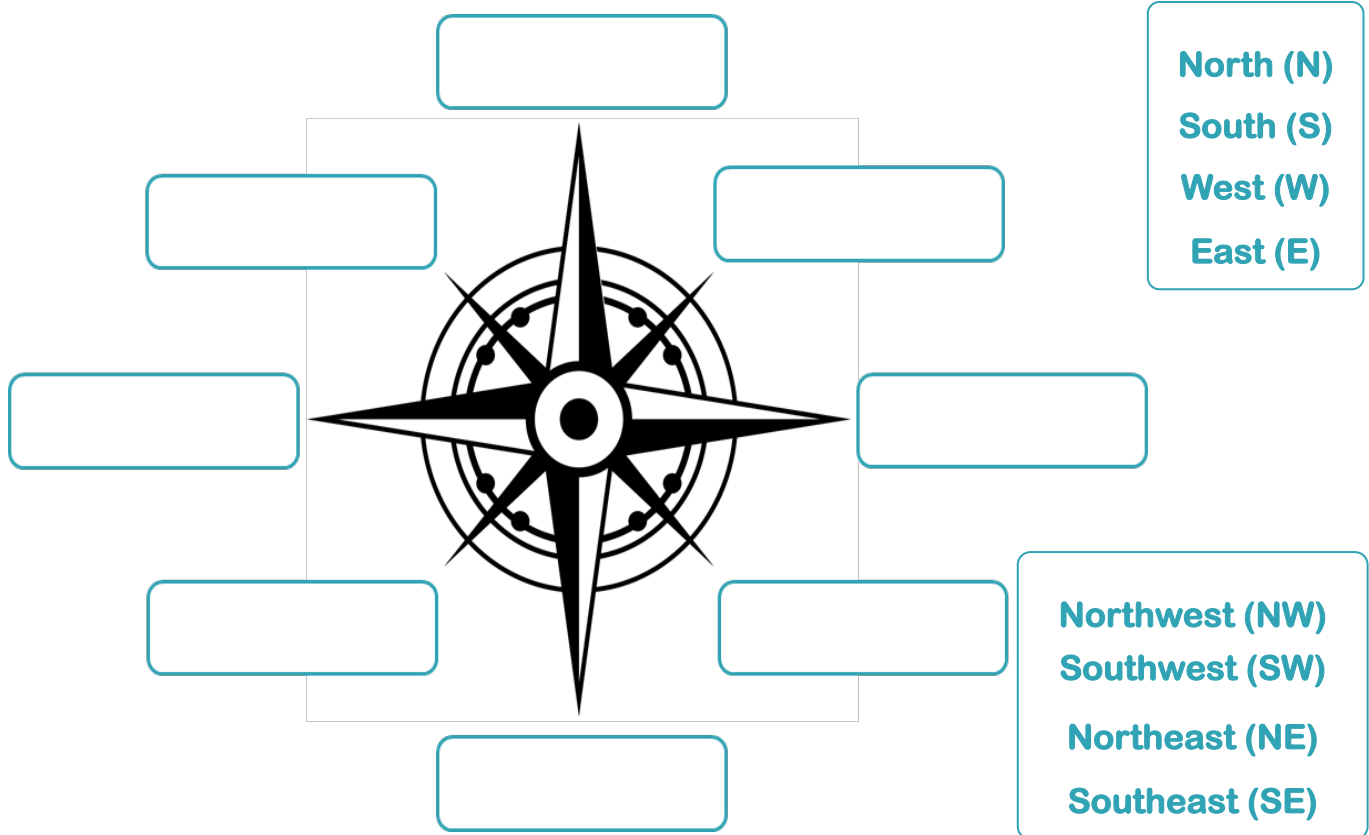
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Draw what happens when you put magnet near your compass.



Know that magnetic needles  
always point magnetic north

Add the direction labels to the compass.



Explain why a compass is important in navigation.

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Explain how to make a magnetic compass.

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Explain why the magnetic compass point North.

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