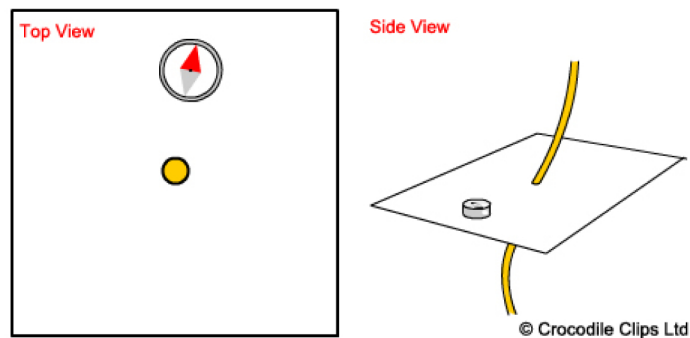




Exercise 1: The Magnetic Field around a straight wire carrying a current

A magnetic compass is placed near to a straight wire as shown below. The red end of the magnetic compass is the North Pole.



1. Question

When no current flows through the wire, the magnetic compass:

- points towards the wire's South Pole
- points towards the Magnetic North Pole
- does not work
- points towards the magnet's North Pole

2. Question

When current flows upwards through the wire, the magnetic compass:

- points in a clockwise direction
- points towards the Magnetic North Pole
- does not work
- points in an anticlockwise direction

3. Question

When the direction of current is reversed and current flows downwards through the wire, the magnetic compass:

- points in an anticlockwise direction
- points in a clockwise direction
- points towards the Magnetic North Pole
- points towards the Magnetic South Pole

4. Question

When current flows through the straight wire, the shape of the magnetic field present is:

- from the North Pole to the South Pole
- squarish
- circular
- very similar to that of a bar magnet

Finish quiz

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