

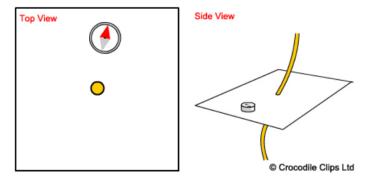
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Exercise 1: The Magnetic Field around a straight wire carrying a current

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:

- opoints towards the wire's South Pole
- opoints towards the Magnetic North Pole
- odoes not work
- opoints towards the magnet's North Pole

2. Question

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

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

3. Question

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

	-
opoints in an anticlockwise direction	
opoints in a clockwise direction	
opoints towards the Magnetic North Pole	
opoints towards the Magnetic South Pole	
Outsting	
. Question	
Vhen current flows through the straight wire, the shape of the magnetic field	d present is:
ofrom the North Pole to the South Pole	

Finish quiz

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squarishcircular

overy similar to that of a bar magnet

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