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SEC Physics Syllabus

Past Papers

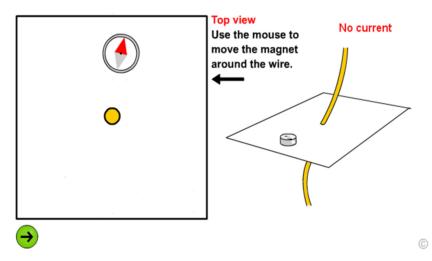
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Exercise 1: The Magnetic Field around a straight wire carrying a current

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

Move the magnetic compass around. When no current flows through the wire, the magnetic compass:

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

2. Question

Switch on the current by clicking on the green arrow circle. Move the magnetic compass around. When current flows upwards through the wire, the magnetic compass:

- opoints in a clockwise direction
- opoints towards the Magnetic North Pole
- odoes not work

| ompass: points in an anticlockwise directio | |
|--|---|
| o points in an anticlockwise direction | DII |
| points towards the Magnetic Nort | th Pole |
| opoints towards the Magnetic Sout | th Pole |
| 4. Question | |
| Move the magnetic compass around | with current still flowing through the wire. When current flows through the |
| | |
| | etic field present is: |
| straight wire, the shape of the magne | etic field present is: |
| straight wire, the shape of the magne | etic field present is: |
| straight wire, the shape of the magne from the North Pole to the South squarish | Pole |

Change the direction of the flow of current by clicking on the green arrow circle again. Move the magnetic compass

opoints in an anticlockwise direction

3. Question

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