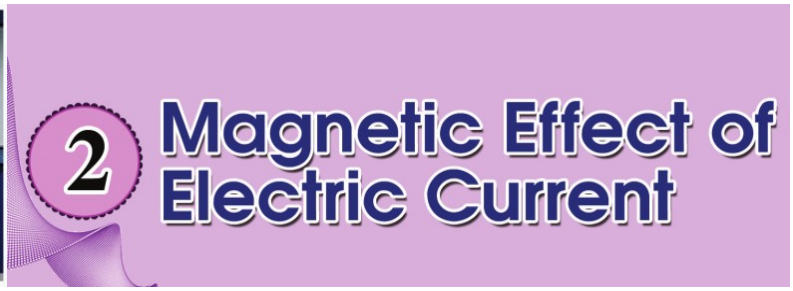
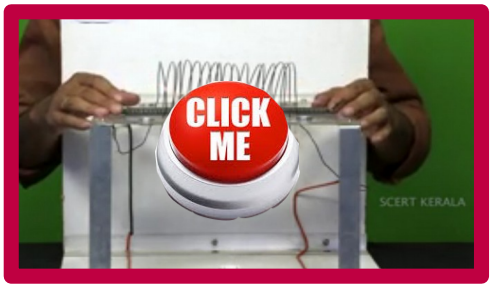
KITE VICTERS ONLINE CLASS 27-07-2020

PHYSICS - X-PART-4 CLASS 12



VIDEO

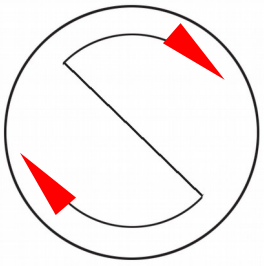
Solenoid



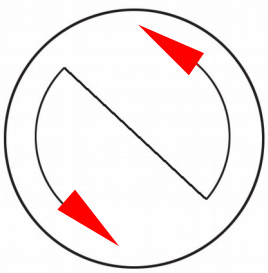
- *A solenoid is an insulated wire wound in the shape of a helix.*

How we can recognise the direction of magnetic field and the polarity of a current carrying solenoid.

- *The end of the solenoid at which current flows in the clockwise direction will be the South Pole.*



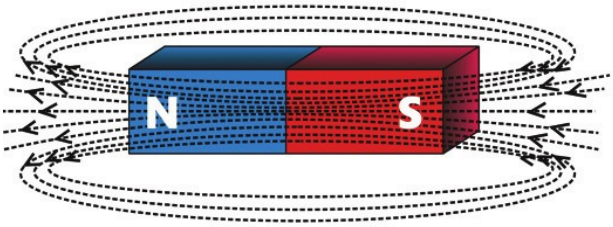
- *The end of the solenoid at which current flows in the anticlockwise direction will be the North Pole.*

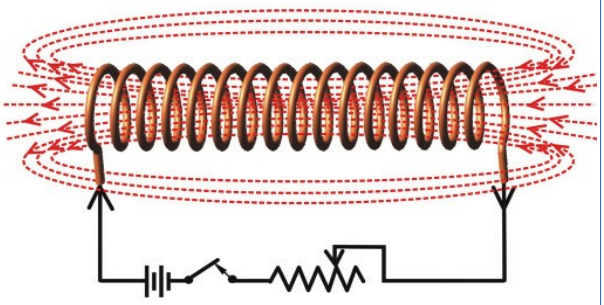


The factors affecting the strength of the magnetic field of a solenoid carrying current.

- Intensity of electric current.
- The number of turns of the solenoid.
- The area of cross section of the solenoid.
- The area of cross section of the soft iron core.

Analyse and compare solenoid and bar magnet





worksheet

Bar Magnet	Solenoid
* The magnetism is permanent	* The magnetism is temporary
* Permanent magnet	* Electromagnet
* Weak magnetic field	* Strong magnetic field
* Strength cannot be changed	* Strength can be changed
* Polarity is fixed	* Polarity can be reversed