

Magnetism and electromagnetism

Complete this Concept Review so you can keep a record of what you have learned.

Definitions

- A magnet is _____

- Magnetism describes _____

- The north pole of a magnet is _____

- A magnetic field is _____

- Electromagnetism describes _____

- A solenoid _____

- Electromagnetic induction consists _____

Magnetic forces of attraction and repulsion

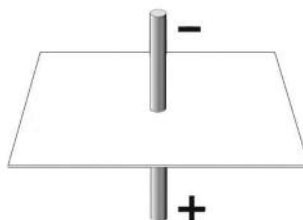
- Opposite magnetic poles _____
- Like magnetic poles _____

Magnetic fields

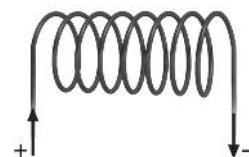
Magnetic field of
a bar magnet



Magnetic field of
a live wire



Magnetic field of
a solenoid



Magnetization by electricity

- To generate a magnetic field using electricity, the electrical charges must be in _____.
- The magnetic field will last only as long as _____.

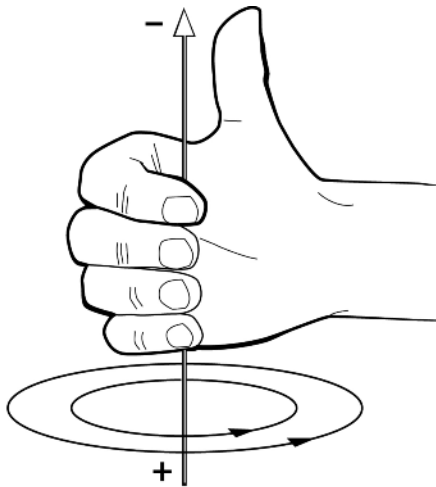
Charging by magnetism

Generating an electrical field using magnetism can be achieved in one of two ways:

- _____
- _____

Right-hand rules

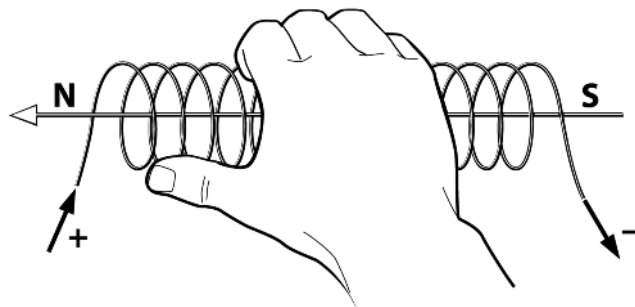
Determining the direction of the magnetic field lines generated by a live wire



- The thumb _____

- The fingers _____

Determining the direction of the magnetic field lines of a solenoid



- The fingers _____

- The thumb _____

