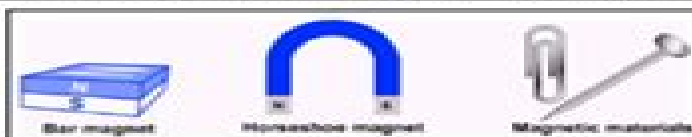


Magnetism

What is a Magnet?

A magnet is something that can attract metal or another magnet. A magnet can also repel another magnet.



Properties of magnets:

- Magnets have two opposite poles: north and south.
- If divided, each part of a magnet will also have a north and south pole (you can never make an unpaired pole)
- Magnets exert forces on other magnets, called "Magnetic forces"
- Opposite poles attract (North attracts South)
 Like poles repel (North repels North, etc)

Permanent and Temporary Magnets

*Iron makes the best temporary magnets.
 Only lodestone and magnetite are permanent magnets.*

Permanent magnet – a magnet that retains its magnetism and does not need to be "recharged." *Lodestone* and *magnetite* are the only two permanent magnetic substances.

Temporary magnet – a magnet that occurs when near a permanent magnet, but loses its magnetism away from the permanent magnet, many metals can be temporary magnets.

Electromagnets

Electromagnet—a magnet made from electricity. When electricity moves it causes magnetism.

Best use of an electromagnet—we can turn it on and off.
 Toasters, doorbells: any job needing a force on command needs an electromagnet.

A simple electromagnet



Strengthening an electromagnet –

- Increase electricity*
 – more batteries or stronger battery.
- Increase number of coils*
 – actually adds electricity, too.
- Add iron to the core* (center of electromagnetic)
 – the iron amplifies the electromagnetic field.

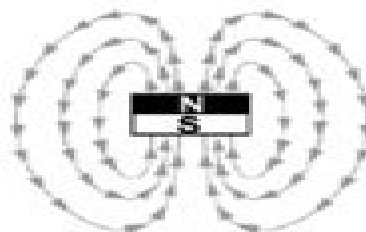
Second best use of an electromagnet
 —we can control how much force we need by increasing or decreasing the electricity.

How do Magnets Work?

Spinning electrons cause magnetism.

Permanent magnets—all of the electrons in an atom are spinning the same way and the little electromagnetic add up.

Temporary magnets—the electrons can switch to spin in the same way when near a magnet, but will fall back after the magnet leaves.



Any magnet will reach inside the magnetic field (the arrows)

The arrows show the direction a North pole would move in the magnetic field.

Magnetic Fields

Magnetic Field—the area in which a magnet or piece of metal feels the force of another magnet.

Rules for magnetic fields—

- drawn from North pole to South pole;
- closer or more arrows = stronger field.
- any magnet will react in a magnetic field.
- every magnet creates a magnetic field.



The magnet of a compass reacts to the Earth's magnetic field to point to magnetic north (in Canada), not true north (the North Pole).

Magnetism Stephen Murray Answers

Michael Hoelscher



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