

## 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 flows 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.

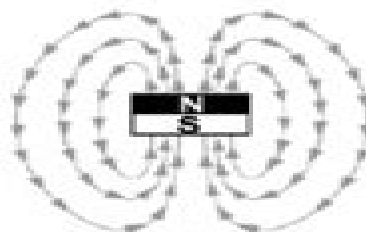
**Second best use of an electromagnet**—we can control how much force we need by increasing or decreasing the electricity.

### 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

**Horace, Quintus Horatius Flaccus**



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**The British National Bibliography Cumulated Subject Catalogue** ,1970      Psychotherapists on Film, 1899-1999  
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