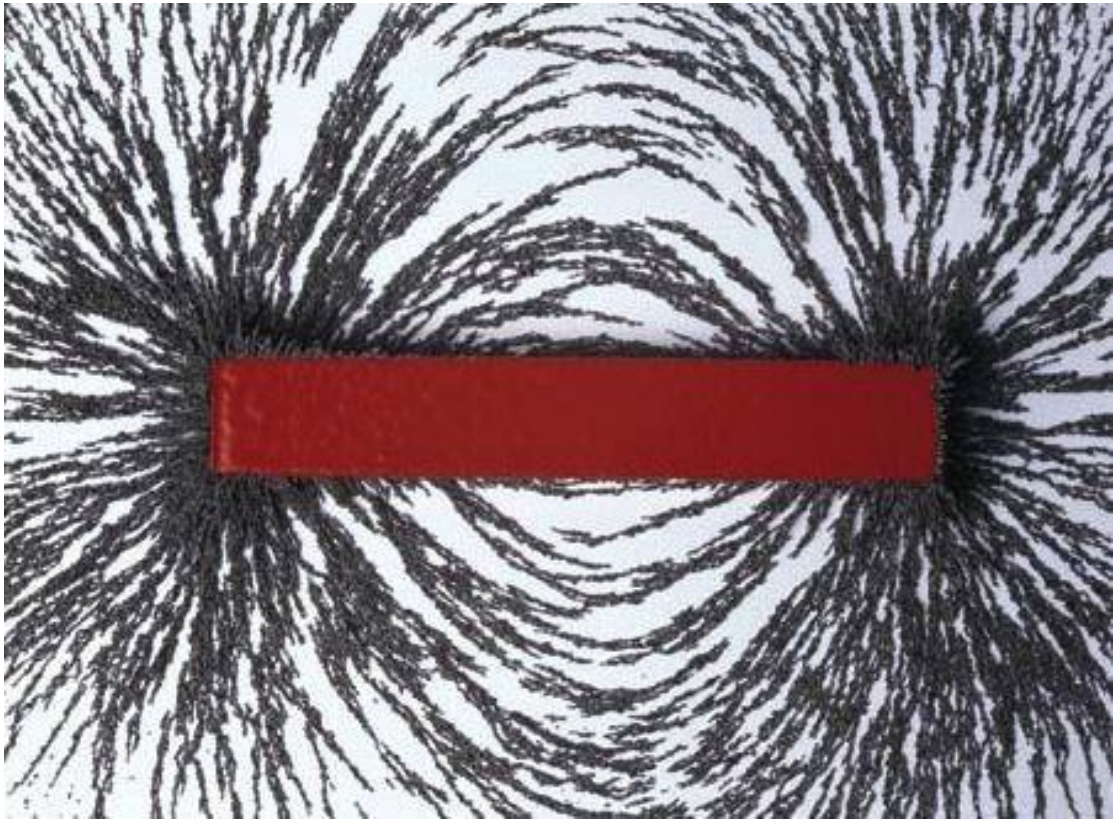
Magnets and Magnetism



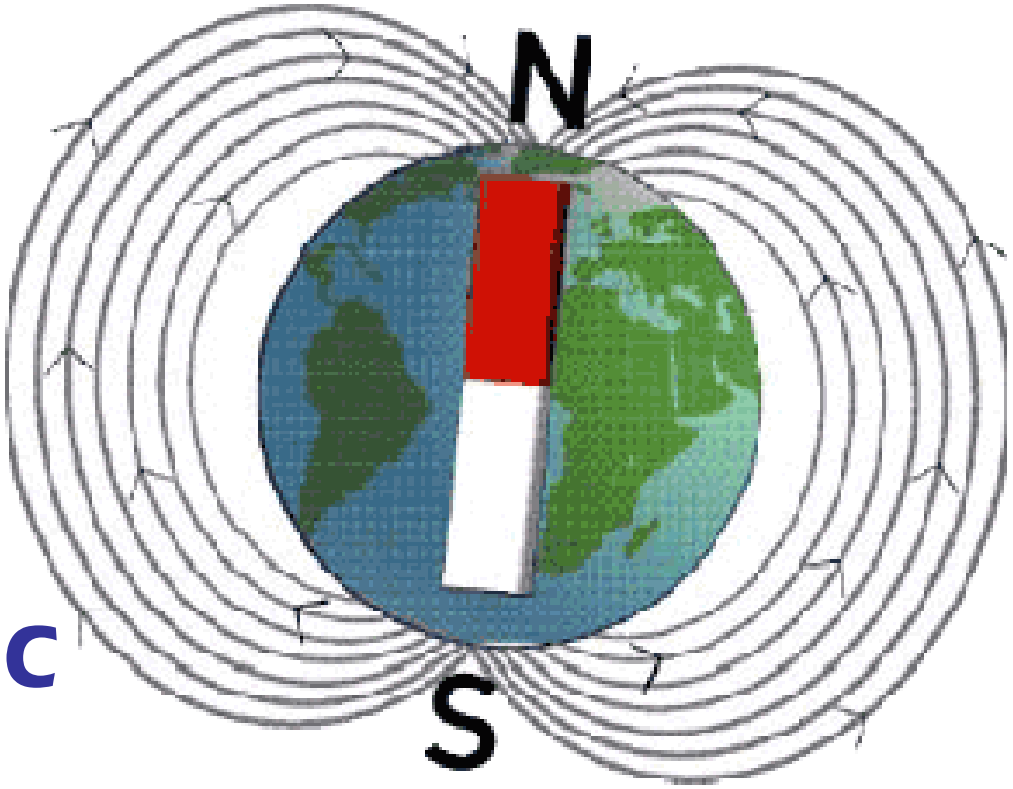
Created by Marie @ The Homeschool Daily

Magnet: materials that attract iron or materials containing iron

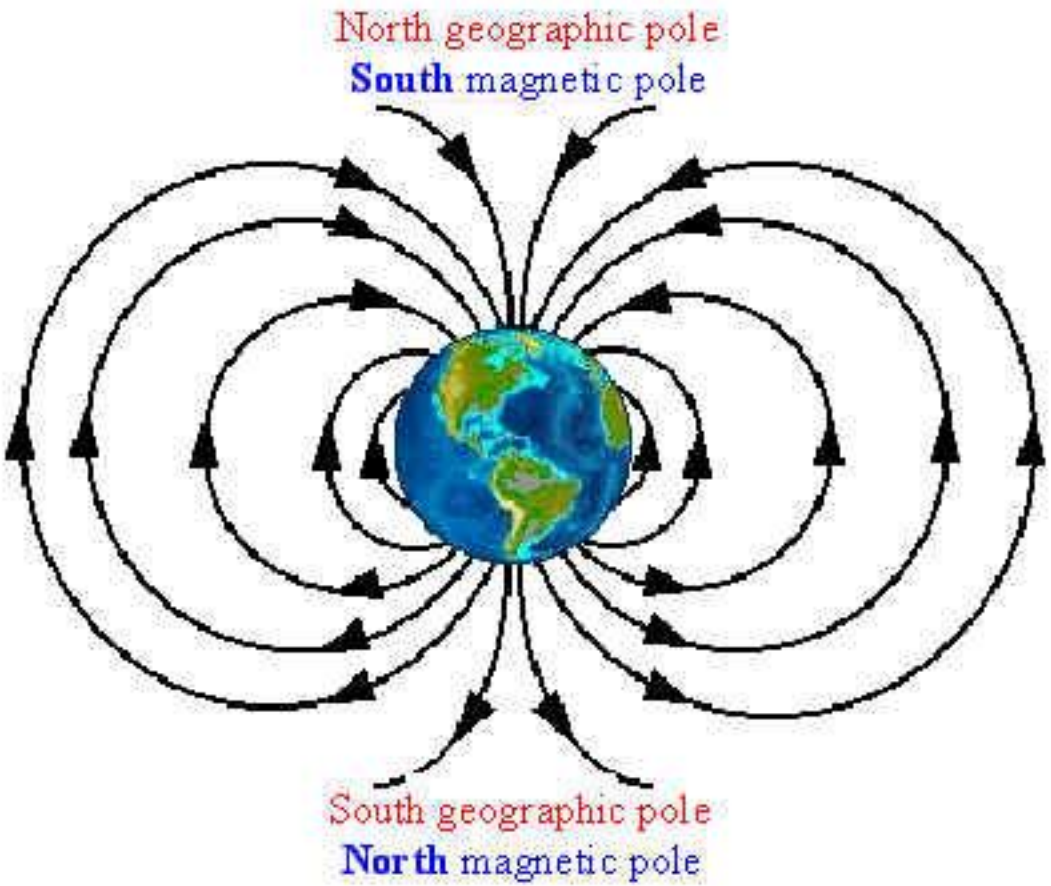
Not all metals are magnetic

All magnets…

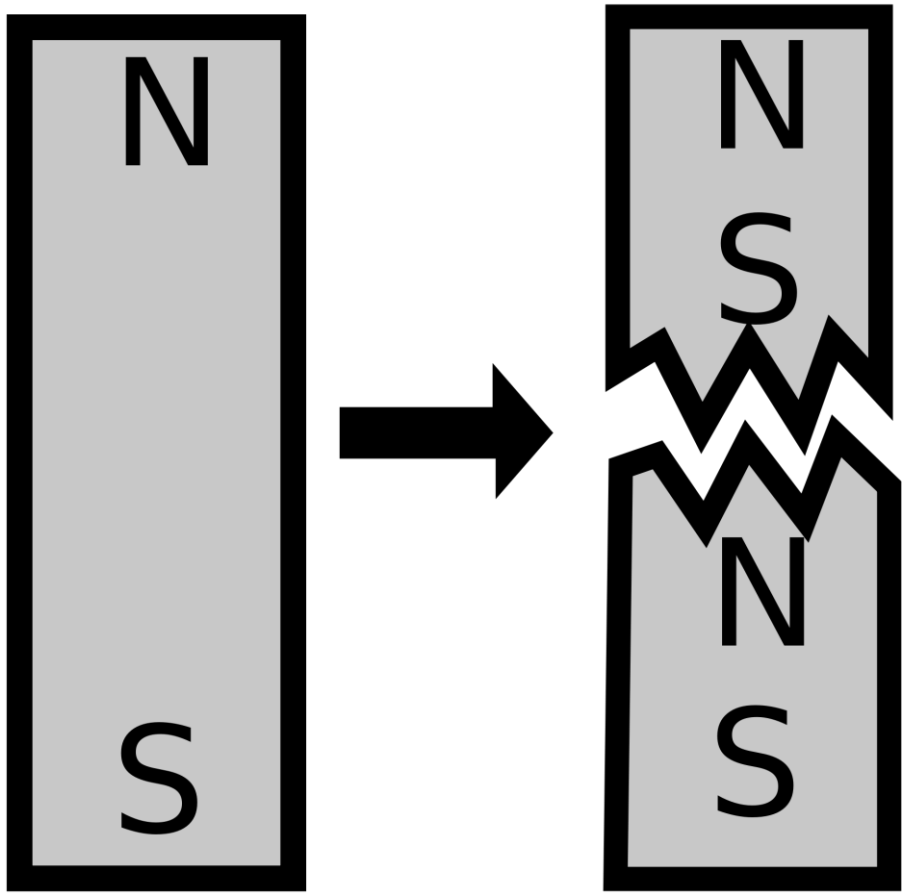
- Have 2 poles
- Exert forces
- Are Surrounded by a magnetic field

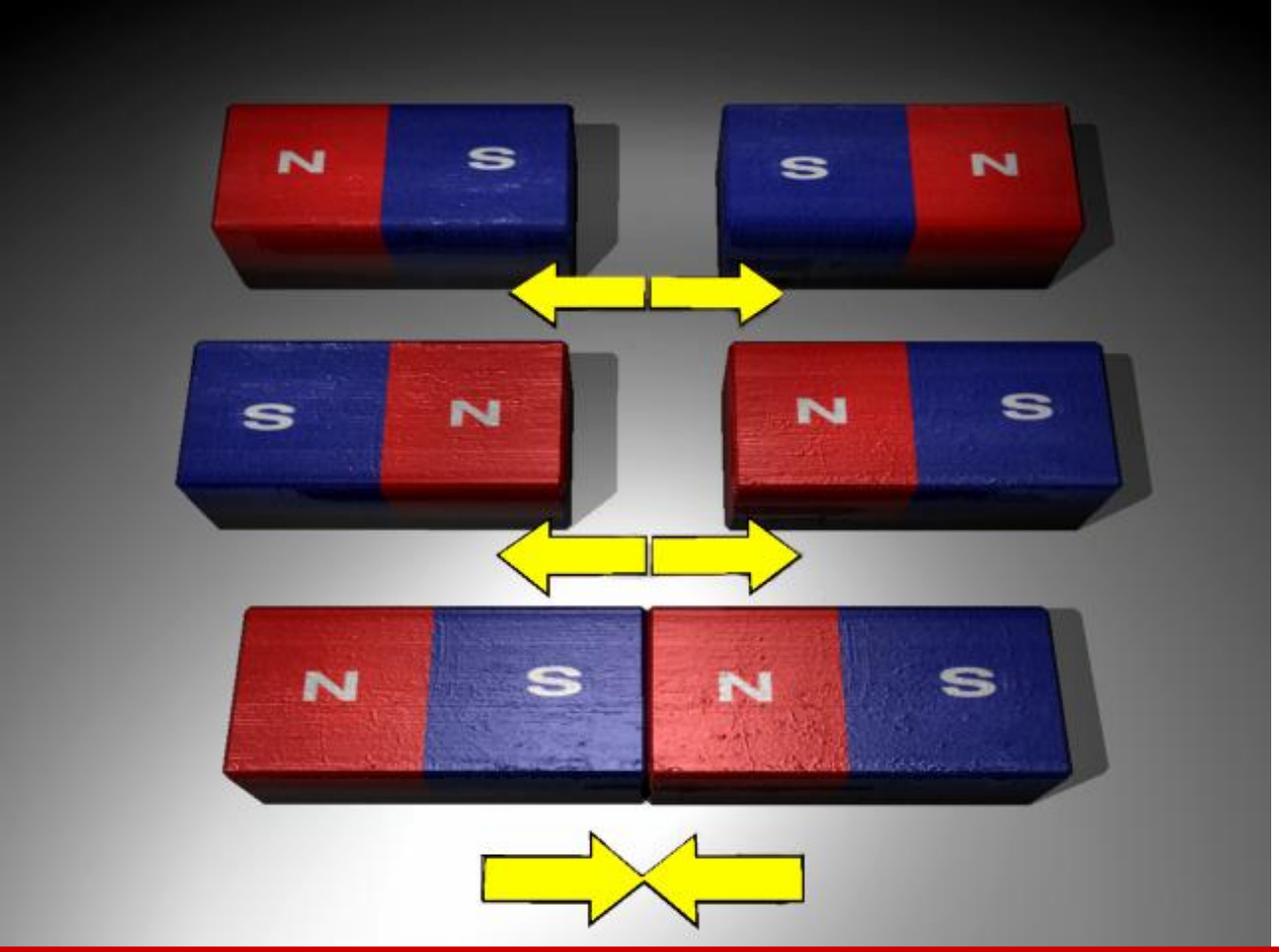


Poles: parts of a magnet where the magnetic effects are strongest



If a magnet is broken, there will still be two poles.

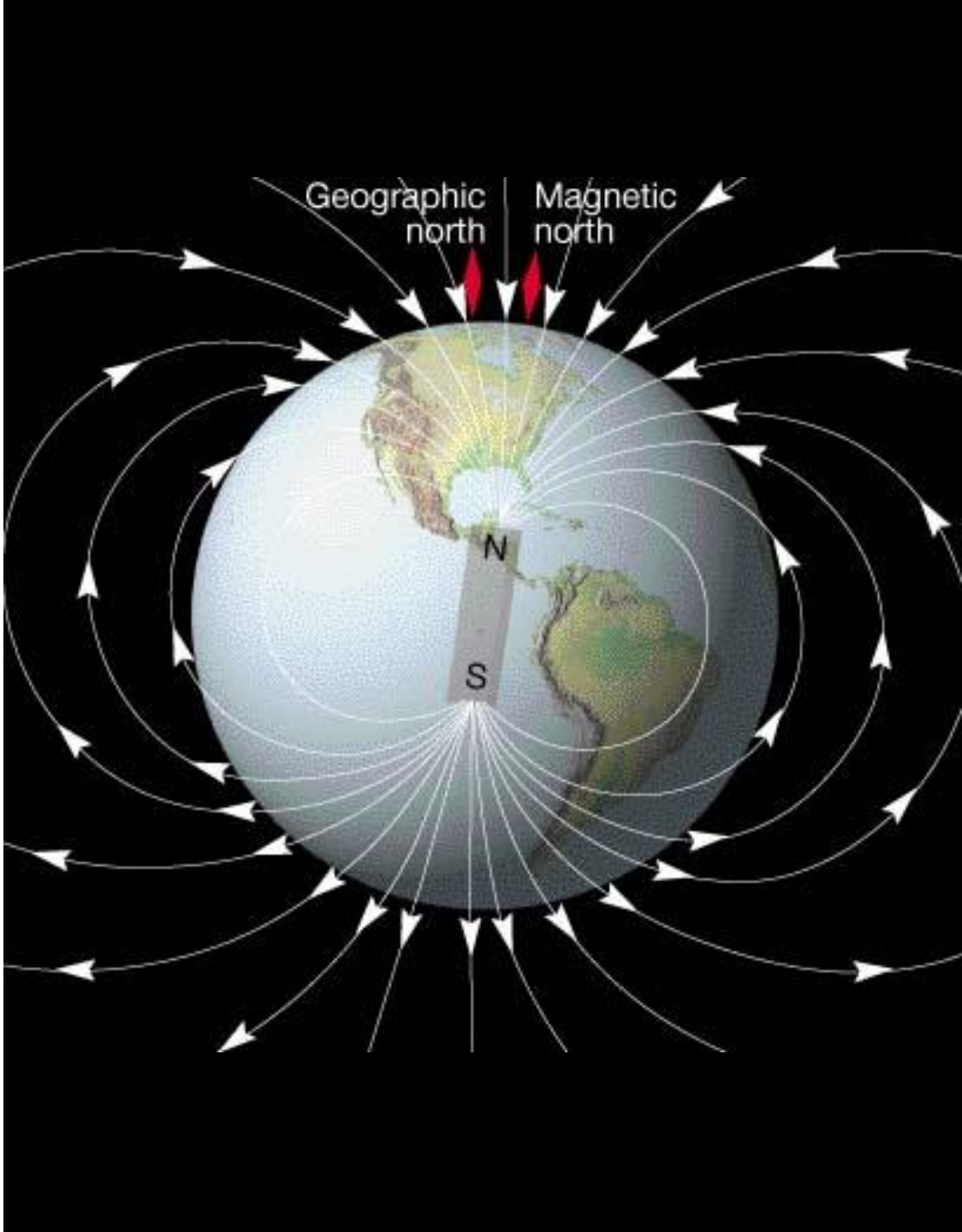




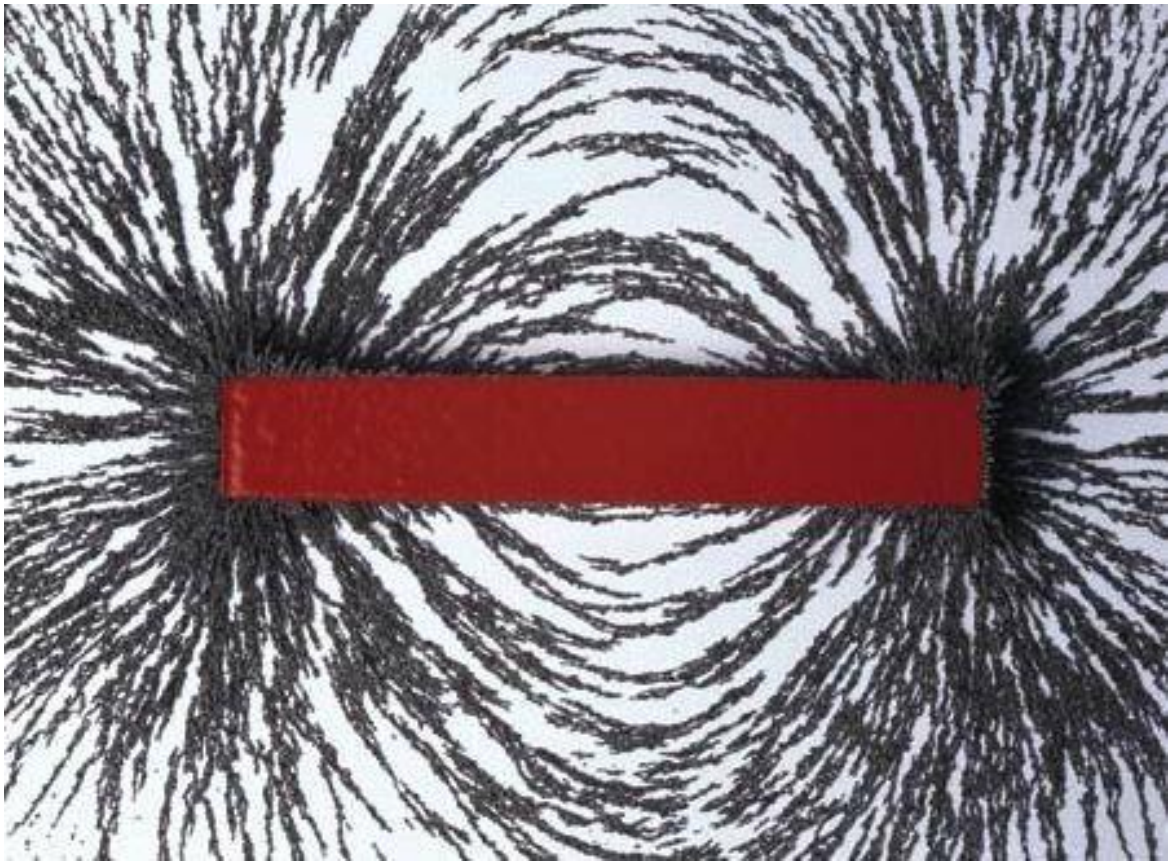
Magnetic poles are like electric charges in that like poles repel and opposite poles attract.

Magnetic Force: force of repulsion or attraction between the poles of magnets

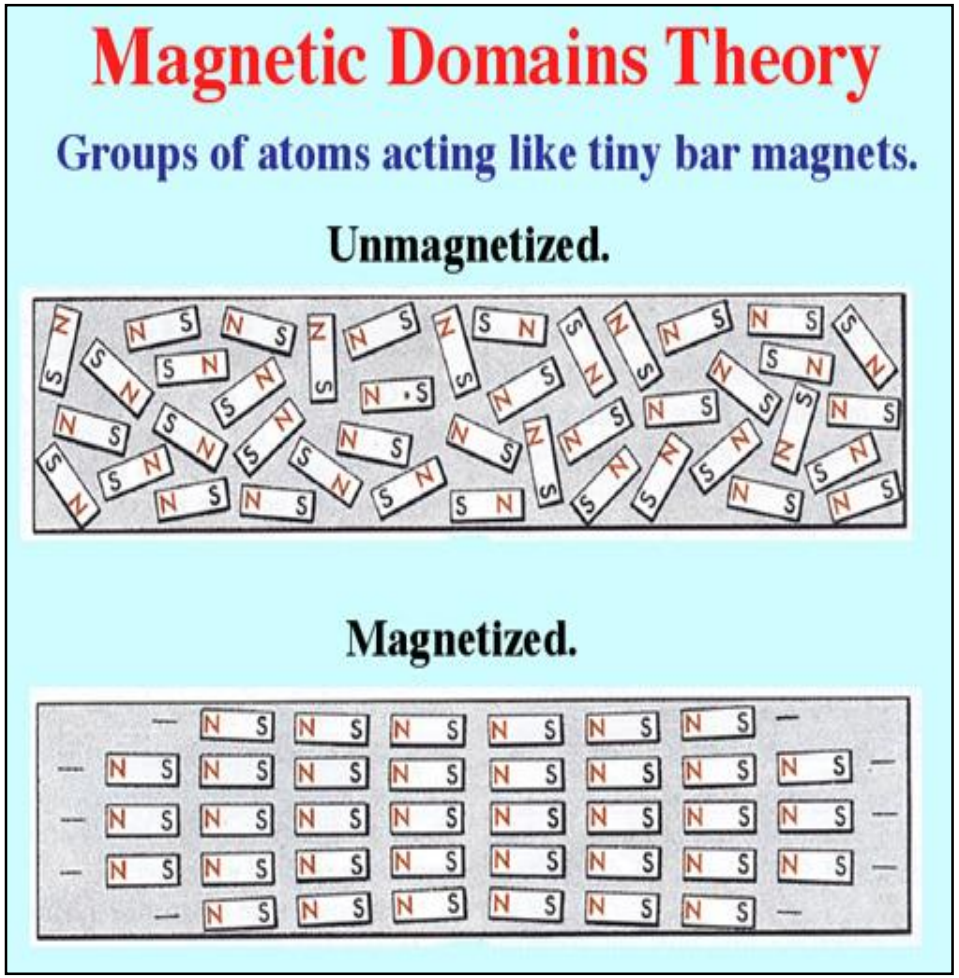
Magnetic Field: region around a magnet in which magnetic forces act



You can see a magnetic field created by iron filings surrounding this bar magnet.



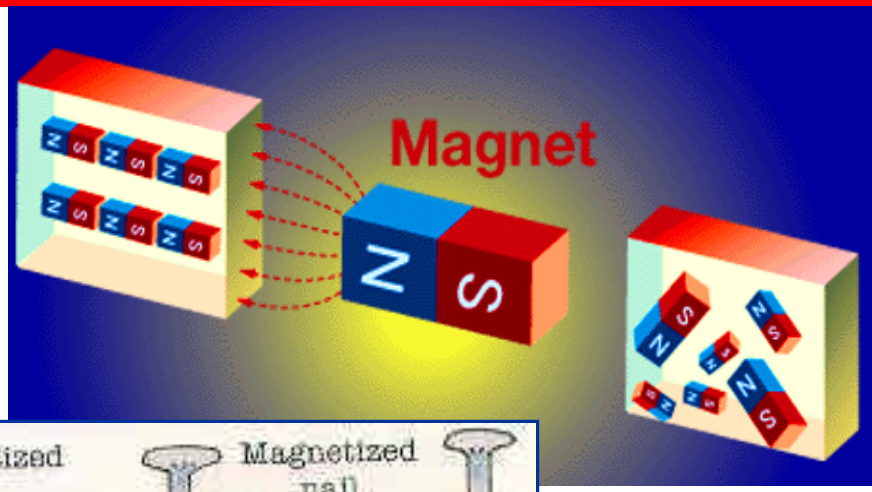
How can a magnet become unmagnetized?

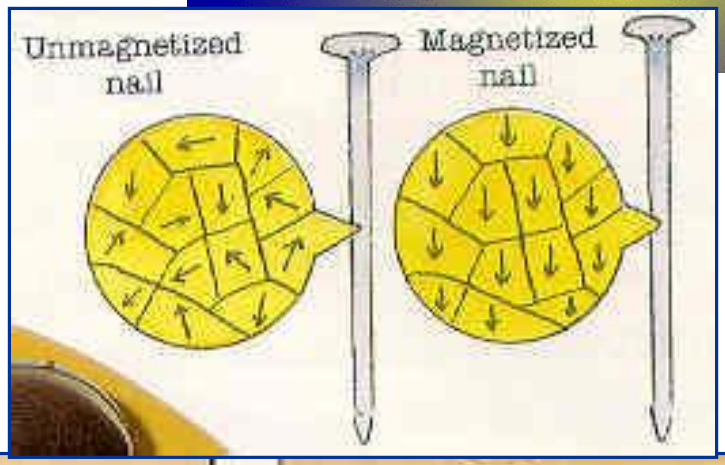


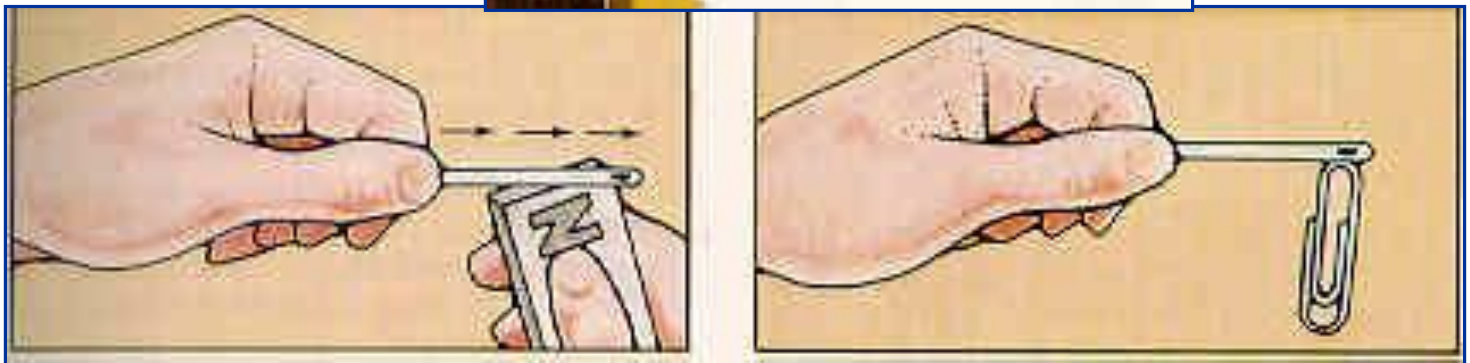
- Dropping a magnet
- Striking or hitting it too hard
- Increasing the temperature

Permanent or Temporary Magnet?

- **Permanent magnet:** tends to retain their magnetic properties
- **Temporary magnet:** made from materials that are easy to magnetize but tend to lose their magnetization easily.







Check out our other learning resources at The Homeschool Daily!

Be not overcome of evil, but overcome evil with good. Romans 12:21