

Physical Science

Chapter 7 Notes

Section 1 - Magnetism

1. Magnets

- **Magnetism** – the properties and interactions of magnets
- **Magnetic force** – the force exerted by a magnet on another magnet
 - ⇒ This force can attract or repel depending on the orientation of the magnet(s)
 - ⇒ The strength of the force increases as the magnets get closer together

2. **Magnetic field** – the area around a magnet where the magnetic force is felt

- The field is strongest close to the magnet and weakens with distance
- The field forms curved lines called magnetic field lines
- **Magnetic poles** – a region of space that surrounds a magnet and exerts a force on other magnets and objects made of magnetic materials
 - ⇒ All magnets have north and south poles
 - ⇒ Magnetic field lines start at the north pole and end at the south pole
- Two magnets can either attract or repel each other
 - ⇒ When the magnets are aligned so that like poles are adjacent, the magnetic force will push the magnets apart
 - ⇒ When the magnets are aligned so the unlike poles are adjacent, the magnetic force will pull the magnets together



3. Magnetic Materials

- Only a few metals such as iron, cobalt, or nickel are attracted to magnets or can be made into permanent magnets
- **Magnetic domains** – groups of atoms within a metal with aligned magnetic poles
 - ⇒ Temporary magnet – occurs when the magnetic domains of the atoms in a metal are aligned. This alignment occurs when the object is placed near a permanent magnet. The alignment is lost due to the random motion of the atoms.
- Permanent magnet – made by placing a piece of magnetic material, iron, cobalt, or nickel, in a strong magnetic field. The aligned magnetic domains add together and create a magnetic field inside the material that may be several thousand times larger than the field outside the material

Section 2 – Electricity and Magnetism

1. Electric Current and Magnetism

- Passing electric current through a wire creates a magnetic field.
 - ⇒ The field forms a circular pattern around the wire
 - ⇒ The direction of the current of the field depends on the direction of the current
 - ⇒ The strength of the field depends on the amount of current flowing through the wire. No current, no magnetic field

Foundations Of Physical Science Chapter 7 Answers

Chao Zhang



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