

Magnetism

Chapter 6: Magnetism · Topic 1

Key Concept

Magnets have two poles - north and south - and like poles repel each other while unlike poles attract.

Magnets attract materials like iron, nickel, and cobalt, but do not attract materials like wood, plastic, or paper.

A compass uses a magnetic needle that aligns with Earth's magnetic field, always pointing towards magnetic north.

Magnetism is used in many devices, like electric motors, speakers, and magnetic locks, showing its wide range of applications.

Quick Revision Notes

- Magnets have north and south poles.
- Like poles repel; unlike poles attract.
- Magnets attract iron, nickel and cobalt.
- Magnets don't attract wood, plastic or paper.
- A compass needle aligns with Earth's magnetic field.
- It points towards magnetic north.
- Magnetism is used in motors and speakers.
- It has wide applications in devices.

Practice Questions

- 1 Test which objects a magnet attracts at home.
- 2 Discuss what happens when you bring two magnets together.
- 3 Research how a compass works.
- 4 Find a device that uses magnetism.
- 5 Draw a magnet and label its poles.
- 6 Explain why magnets attract iron but not plastic.