

Into the Magical World of Magnets

Chapter 10: Into the Magical World of Magnets · Topic 1

Key Concept

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

Every magnet has two poles - north and south - with like poles repelling each other and unlike poles attracting each other.

A magnetic field is the area around a magnet where its magnetic force can be felt, often visualised using iron filings.

Magnets are used in many devices, including compasses, electric motors, refrigerator doors, and speakers, showing their practical importance.

Quick Revision Notes

- Magnets attract iron, cobalt, nickel.
- They don't attract wood, plastic.
- Every magnet has 2 poles: north, south.
- Like poles repel; unlike poles attract.
- Magnetic field: area of magnetic force.
- Visualised using iron filings.
- Magnets used in compasses, motors, speakers.
- This shows their practical importance.

Practice Questions

- 1 Test which materials a magnet attracts.
- 2 Identify the poles of a magnet.
- 3 Observe like and unlike poles interacting.
- 4 Discuss where magnets are used at home.
- 5 Draw a magnetic field using iron filings (or describe it).
- 6 Explain magnetism in your own words.