

Basics of Electromagnetism

Science · Answer Key · 8 Questions

1. Which material is commonly used to make the core of an electromagnet?

- A) Plastic
- B) Iron**
- C) Wood
- D) Rubber

2. What is the invisible area around a magnet where its force can be felt?

- A) Magnetic field**
- B) Electric current
- C) Static zone
- D) Conductive layer

3. Which of these objects is a conductor of electricity?

- A) Plastic ruler
- B) Glass marble
- C) Copper wire**
- D) Dry wood

4. What happens when you bring the north poles of two magnets together?

- A) They attract
- B) They repel**
- C) They spark
- D) Nothing happens

5. Which component is needed to complete a simple electrical circuit?

- A) A battery
- B) A light bulb
- C) Wires
- D) All of these**

6. What is the main source of power in a simple circuit that pushes electricity through wires?

- A) Switch
- B) Resistor
- C) Battery**
- D) Insulator

7. Which of these materials is magnetic?

- A) Aluminum
- B) Paper
- C) Steel**
- D) Gold

8. What does a switch do in an electrical circuit?

- A) Produces heat
- B) Opens and closes the path**
- C) Stores energy
- D) Measures voltage