

Name: _____ Date: _____

Electric Current and its Effects

Q1. What is battery? How can it be made using cells?

Ans. _____

Q2. What are electromagnets?

Ans. _____

Q3. How does a heating element work in an electric heater?

Ans. _____

Q4. Do you think an electromagnet can be used for separating plastic bags from a garbage heap? Explain.

Ans. _____

Electric Current and its Effects

Q1. What is battery? How can it be made using cells?

Ans. A combination of two or more cells is called a battery. Battery can be made by connecting two or more cells together. The positive terminal of one cell is connected to the negative terminal of the next cell.

Q2. What are electromagnets?

Ans. A core of magnetic material (such as iron) surrounded by a coil of wire behaves like a magnet when electric current flows through it. When the electric current is switched off, the coil generally loses its magnetism. Such coils are called electromagnets.

Q3. How does a heating element work in an electric heater?

Ans. An electric room heater or an electric heater used for cooking. All these contain a coil of wire. This coil of wire is called an element. When these appliances are switched on after connecting to the electric supply, their elements become red hot and give out heat.

Q4. Do you think an electromagnet can be used for separating plastic bags from a garbage heap? Explain.

Ans. No, an electromagnet cannot be used for separating plastic bags from a garbage heap because plastic bag is a non-magnetic material and will not be attracted by an electromagnet.