

Questions pages 216-217

1. Why do you think batteries become hot if they are used for long periods of time?

Chemical energy is transferred by electrical energy and heat energy; if used for a long time, lots of heat will be transferred to the surroundings.

2. Draw an energy transfer diagram to show the changes taking place in a battery.

Chemical energy  **energy transferred by electricity**  **energy transferred by heat**

3. Summarise in a bullet list how a battery works.

1- Chemical reaction occurs inside the battery.

2- Electrons are released and build up on the negative terminal (Anode)

3- Electrons flow in the wire.

4- A current is formed in the wires

5- Electrical energy is transferred to appliances.
