Second Term Grade 7 Physics Notes

Book 3 Unit 7 "Electricity and Energy"

Q) Differentiate between Alternating Current and Direct Current Ans)

Direct Current	Alternating Current
When the voltage applied is steady and doesn't change its value. Then, electricity always flows in one direction. Dry cell and Batteries give steady voltage.	When voltage changes its direction very rapidly, the current flows backward and forward. This is called AC.
Time Time	alternating Time

Define:

Electrical Power:

It is the amount of electrical energy transferred or converted by an electrical circuit. Electrical power is measured in watts (W) and kilowatts (kW). It can be calculated using this formula:

Electrical power (W) = voltage (V) x current (I)

Q What fuse should you fit in the plug of

a) a 3000 W electric heater

current = Power /voltage

= 3000 /250

= 12A

A 13 A fuse would be suitable for heater

b) a 1000 W toaster

current = Power /voltage

= 1000 / 250

= 4A

A 5A fuse would be

Suitable for toaster