

7J Electrical circuits

literacy in science

Science Interactive LTD. PO BOX 50764 LONDON NW6 9AT email: sales@science-interactive.co.uk

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Answer all the questions below:



Click mouse to reveal answer

1) Unscramble the following words:

errncut

tryteba

rgeyen

olvt etmer

2) Make three sentences using the following nine words or phrases:

current
a battery converts
series and parallel

transfers energy
chemical energy
different types

to a device
electrical energy
circuits

3) Match the word or phrase with the right meaning:

Current



Describes the energy in and out for a component like a bulb

Device



A flow of electrons or charge moving around a circuit

Energy transfer



A component like a bulb or motor that does useful work

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Answer all the questions below:

1) Unscramble the following words:

current

battery

energy

Volt meter

2) Make three sentences using the following nine words or phrases:

current

a battery converts

series and parallel

transfers energy

chemical energy

different types

to a device

electrical energy

circuits

3) Match the word or phrase with the right meaning:

Current

A flow of electrons or charge moving around a circuit

Device

A component like a bulb or motor that does useful work

Energy transfer

Describes the energy in and out for a component like a bulb

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complete the sentence

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Place the right word or words to complete the sentence:

 Click mouse to reveal answer

fuse

current

wet

protects

battery

route

circuit

heat

switch

- a) A_____protects the device and its user from a current surge.
- b) A lead or wire found in a_____ allows a charge or electricity to flow through it.
- c) A bulb converts electrical energy into_____ and light energy.
- d) A_____ converts chemical energy into electrical energy.
- e) In a series circuit there is only one_____ for the electrons to travel.
- f) A earth wire found in a device or a plug is there to_____ you against electrocution.
- g) It is highly unsafe to use a hairdryer with_____ hands.
- h) A light dimmer_____ uses a variable resistor to control the amount of current.
- i) The amount of _____ through a circuit depends on the nature and number of devices.

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complete the sentence

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Place the right word or words to complete the sentence:

fuse

current

wet

protect

battery

route

circuit

heat

switch

- a) **A fuse protects the device and its user from a current surge.**
- b) **A lead or wire found in a circuit allows a charge or electricity to flow through it.**
- c) **A bulb converts electrical energy into heat and light energy.**
- d) **A battery converts chemical energy into electrical energy.**
- e) **In a series circuit there is only one route for the electrons to travel.**
- f) **A earth wire found in a device or a plug is there to protect you against electrocution.**
- g) **It is highly unsafe to use a hairdryer with wet hands.**
- h) **A light dimmer switch uses a variable resistor to control the amount of current.**
- i) **The amount of current through a circuit depends on the nature and number of devices.**