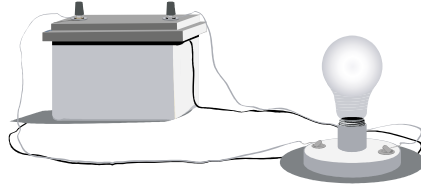


# Choose the best word

In this circuit, a bulb is connected to a battery. The bulb is lit.



Below are several sentences about this circuit. Each has a word missing. For each sentence, choose the best word to fill the gap. Tick one box (✓) to show the word you have chosen.

(a) When the bulb lights, there is \_\_\_\_\_ going through it.

- electricity
- an electric current
- energy
- voltage

(b) While the circuit is complete, \_\_\_\_\_ flows all of the way around it.

- electricity
- an electric current
- energy
- voltage

(c) This flow is caused by the \_\_\_\_\_ across the terminals of the battery.

- electricity
- an electric current
- energy
- voltage

(d) While the circuit is switched on, \_\_\_\_\_ is constantly being transferred from the battery to the bulb and out into the surroundings.

- electricity
- an electric current
- energy
- voltage

(e) The amount of energy transferred per second from the bulb to surroundings is its \_\_\_\_\_.

- electricity
- an electric current
- energy
- voltage

## Make a match

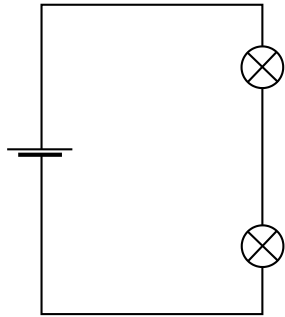
- A. 1 joule per second
- B. 1 coulomb per second
- C. 1 coulomb per joule
- D. 1 joule per coulomb

Match one of the above to each of the three units listed below:

- (a) ampere is the same as:\_\_\_
- (b) 1 volt is the same as:\_\_\_
- (c) 1 watt is the same as:\_\_\_

## Who do you agree with?

Ben, Tanya and Jane are talking about an electric circuit in which two bulbs are connected in series to a battery. One of the bulbs is BRIGHT but the other is much DIMMER in comparison.



Examine each of the following statements in turn and decide whether you AGREE or DISAGREE with it:

(a) Tanya: Well, the bright bulb has a bigger power output than the dim one.

AGREE     DISAGREE

(b) Ben: I reckon the electric current through the brighter bulb must be bigger.

AGREE     DISAGREE

(c) Jane: I think that the battery voltage is shared between the bulbs and the dimmer one has a smaller voltage drop across it.

AGREE     DISAGREE