

Year 4 Electricity

**What uses mains
electricity?**



Which objects use mains electricity?



Fill in the missing letters:



Electricity is the flow of an electric c_rr_ _ _ or charge through a material.

Many everyday appliances rely on e_ectr_c_t_ for them to work. An appliance is a piece of equipment or device designed to do a j_ _ , eg a washing machine or a fridge.

Some appliances need to be plugged into a so_ _ et (mains electricity) while others require b_ _ _ eries to make them work. A battery is a device that st_r_s electrical en_ _ gy as a chemical.

Write TRUE or FALSE next to each statement.
Correct any false statements.



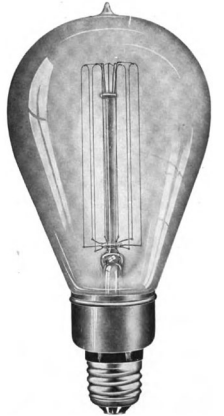
To generate means to reduce. _____

Lightening and static electricity are examples of electricity occurring naturally but for us to use electricity to power appliances, we must make it. _____

Coal, oil and natural gasses are fossil fuels which can be used to Generate electricity when cooled. _____

Electricity can be generated from wind power and hydroelectric power. The sun's rays can be converted into electricity by solar panels. _____

Label the different parts of electrical circuit below:



Keywords

Switch

Buzzer

Wires

Bulb

Battery

Fill in the gaps

Keywords

flow

energy

insulators

slow

Electrical conductors are _____ which allow _____
to pass through them.

Electrical _____ stop or _____ down energy.

They do not allow electricity to _____ through.

Conductors or Insulators

Material	Conductor	Insulator
Wood		
Brass		
Plastic		
Glass		
Paper		
Copper		
Silver		
Chalk		

Year 4 Electricity Answers



Fill in the missing letters:



Electricity is the flow of an electric **current** or charge through a material.

Many everyday appliances rely on **electricity** for them to work. An appliance is a piece of equipment or device designed to do a **job** , eg a washing machine or a fridge.

Some appliances need to be plugged into a **socket** (mains electricity) while others require **batteries** to make them work. A battery is a device that **starts** electrical **energy** as a chemical.

Write TRUE or FALSE next to each statement.

Correct any false statements



To generate means to reduce. **FALSE**

(Generate means to make or produce)

Lightening and static electricity are examples of electricity occurring naturally but for us to use electricity to power appliances, we must make it. **TRUE**

Coal, oil and natural gasses are fossil fuels which can be used to

Generate electricity when cooled. **FALSE**

(When burned, they produce heat which can be used to generate electricity)

Electricity can be generated from wind power and hydroelectric power.

The sun's rays can be converted into electricity by solar panels. **TRUE**

Label the different parts of electrical circuit below:



Wires



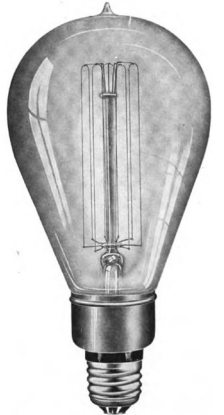
Batteries



Buzzer



Switch



Bulb

Fill in the gaps



Keywords

flow

energy

insulators

slow

materials

Electrical conductors are **materials** which allow **energy** to pass through them.

Electrical **insulators** stop or **slow** down energy.

They do not allow electricity to **flow** through.

Conductors or Insulators

Material	Conductor	Insulator
Wood		✓
Brass	✓	
Plastic		✓
Glass		✓
Paper		✓
Copper	✓	
Silver	✓	
Chalk		✓