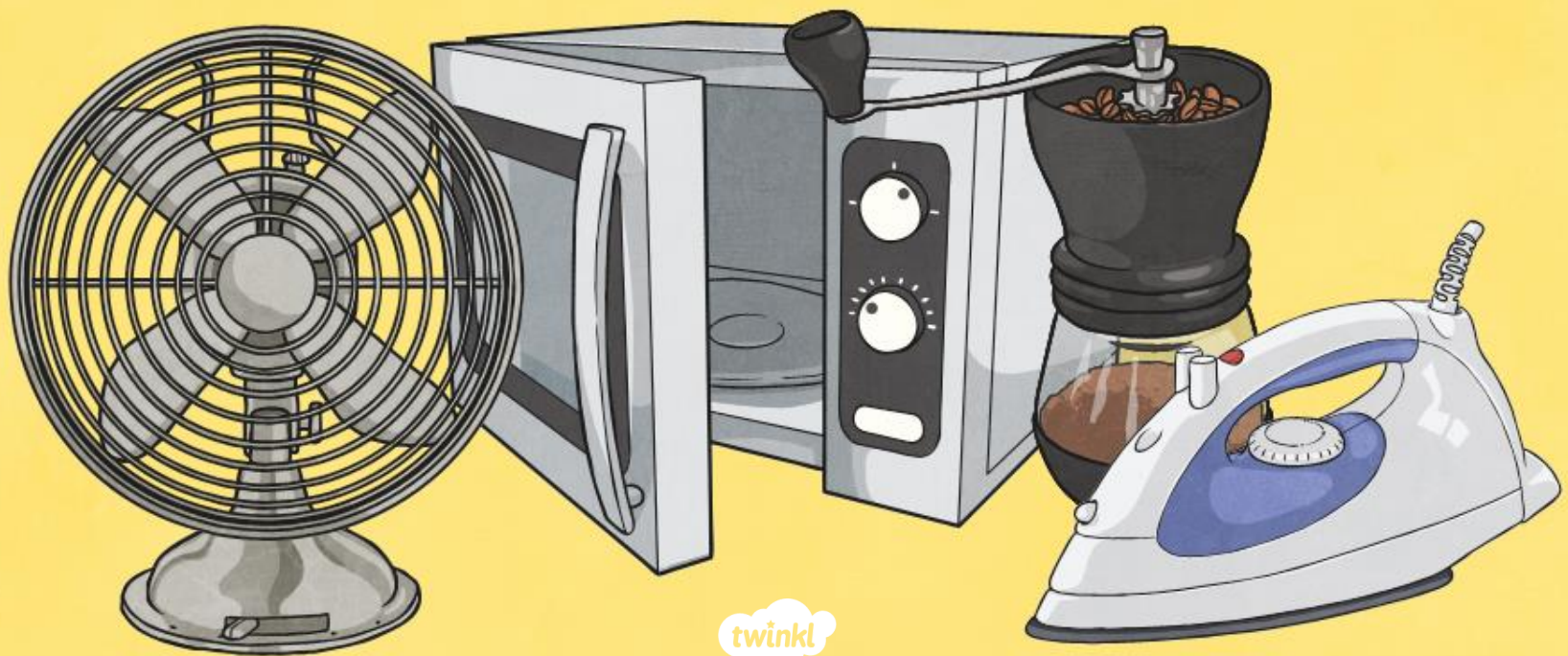


# Everyday Electrical Appliances



twinkl

# What is an Appliance?

## Definition:

An **Appliance** is a **device**, **piece of equipment** or an **instrument** designed to perform a **task**.

## Examples:



A **washing machine** is an appliance which performs the task of **washing clothes**.



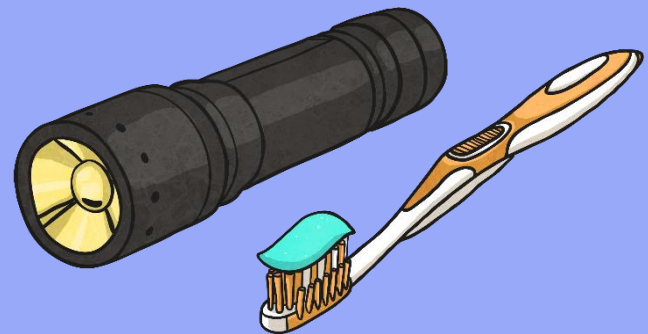
A **thermometer** is an appliance which performs the task of checking the **temperature**.

# Electrical Appliances Answers

Electrical Appliances	Non-electrical Appliances
washing machine mobile phone lawn mower toaster microwave television tablet fan sewing machine torch iron hairdryer	thermometer saucepan cheese grater pencil felt tip bowl potato peeler fork toothbrush gas oven rake coffee grinder candle hammer sponge

## Questions

1. Which appliances did you think used electricity?
2. Which did you think did not use electricity?
3. Can you explain why?

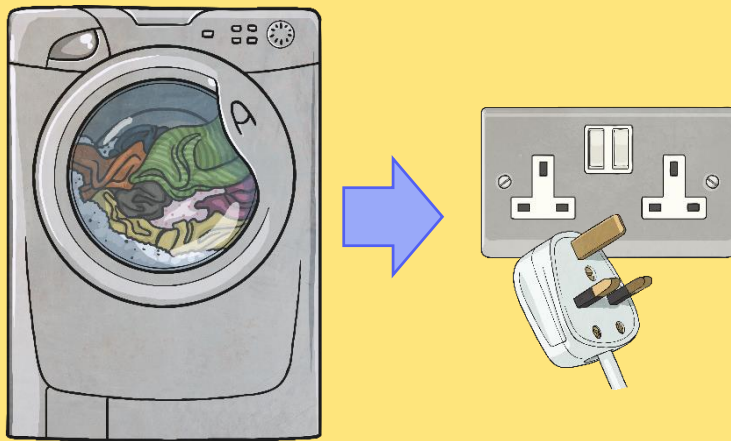




# Types of Electricity

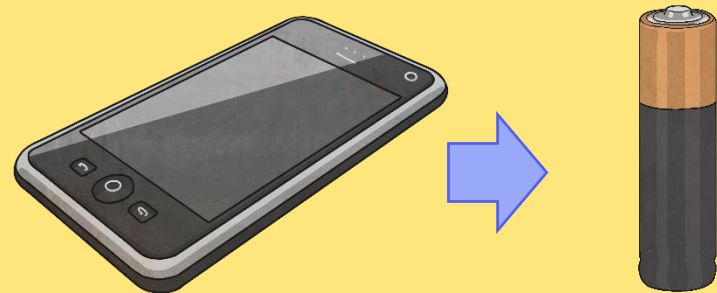
There are two types of electricity:

## Mains Electricity



To use this type of electricity, you need to plug the appliance into a socket.

## Battery Electricity



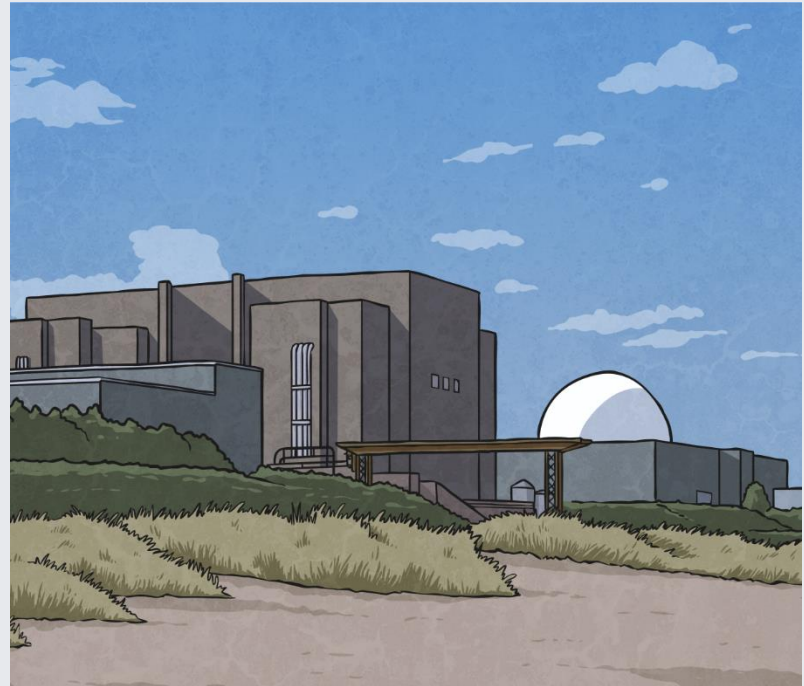
To use this type of electricity, you need to insert a battery into the appliance.

# Types of Electricity

In the UK, **mains electricity** is produced mainly by **gas, coal or nuclear power stations**.



gas power station



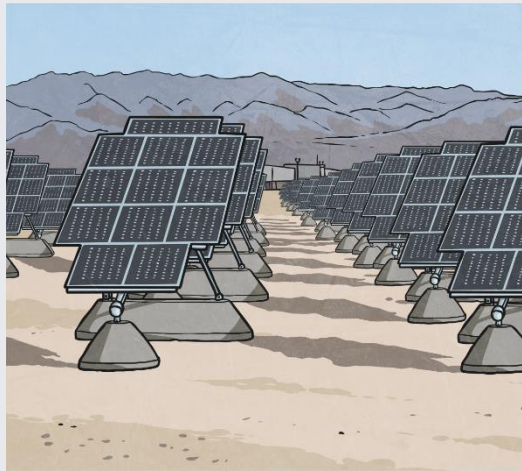
nuclear power station

# Types of Electricity

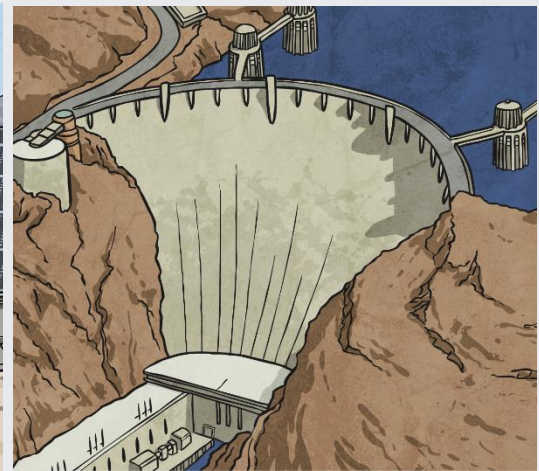
**Wind turbines, hydroelectric and solar panel power stations** are also used to generate electricity, but to a lesser extent.



wind turbines



solar panels



hydroelectric power

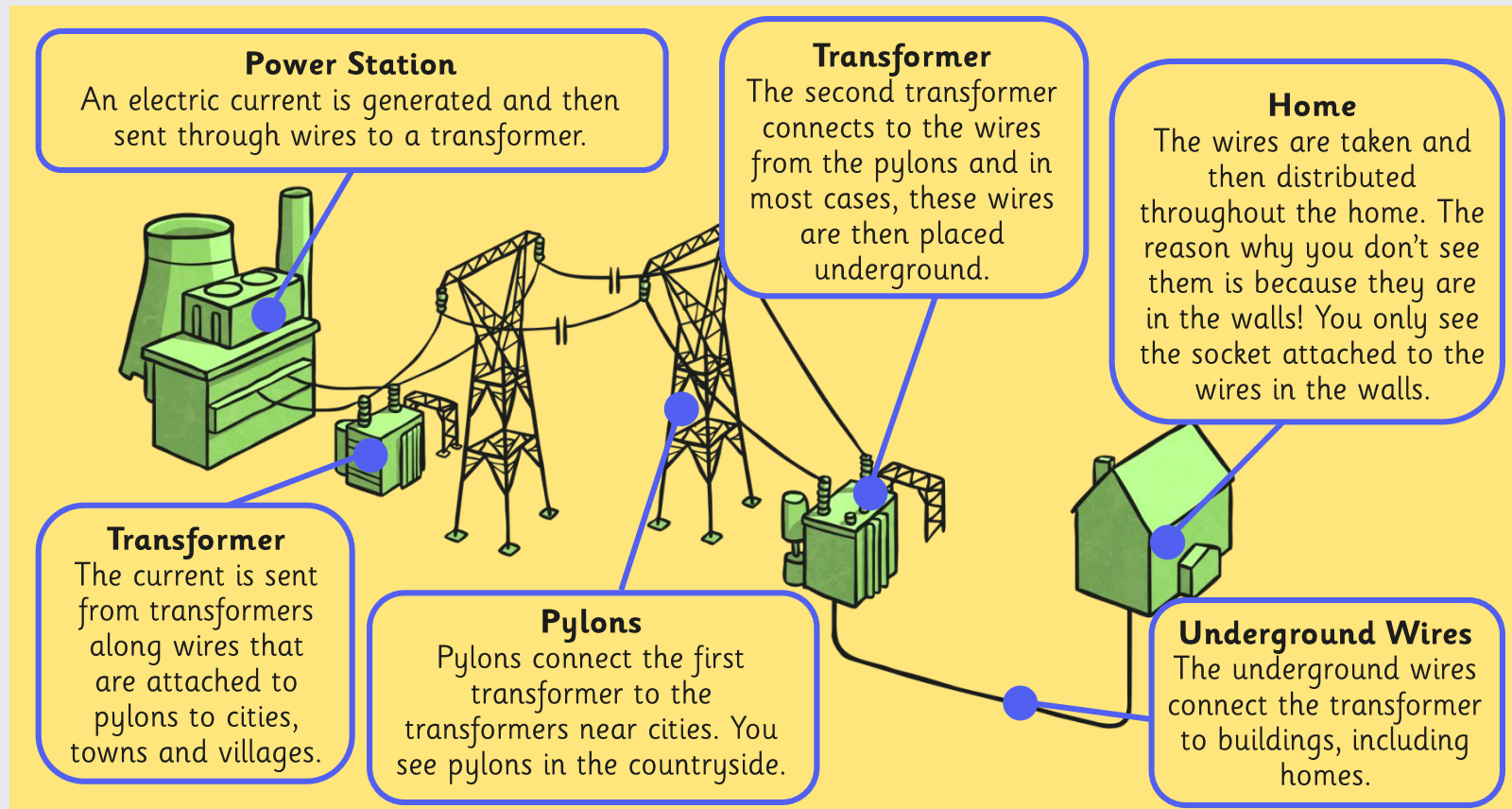
A small number of homes have **solar panels** attached to their roofs to provide mains electricity.





# Types of Electricity

Power stations generate a continuous electric current.

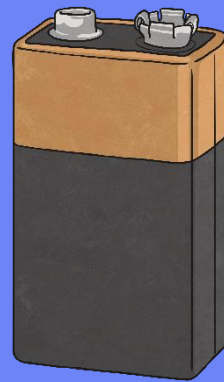


# Types of Electricity

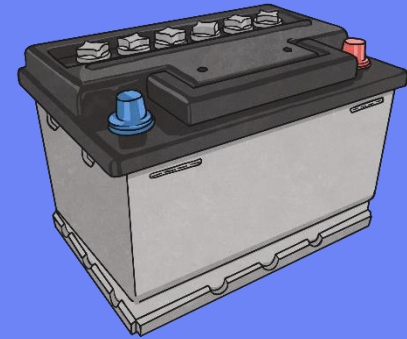
Batteries store chemicals which produce an electric current. They eventually stop working as the chemicals stop being able to produce an electric current.



battery

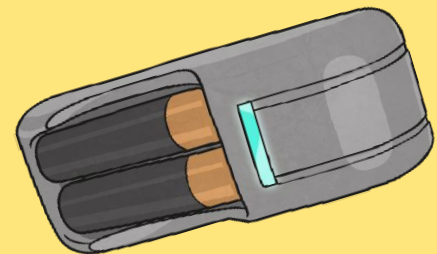


square battery



car battery

Rechargeable batteries are ones where the chemical reaction can be reversed so that the battery is able to create an electric current again. However, even rechargeable batteries will eventually stop producing an electric current.





# Staying Safe

Mains electricity can be dangerous, causing anything from a minor electric shock, to serious burns and even death!

**Do you know how to stay safe in your home?**

Click on the house below and let's see.



### Task 1.

This week we are going to begin recapping all that you have learnt about Electricity. Think of and sort as many everyday objects as you can think of into two categories- objects that use electricity and those that do not.

### Task 2.

1. What are the two main types of electricity?
2. How is electricity, mainly produced in the UK?
3. Think of two different objects that use battery power.  
Explain why this is.
4. What other ways are used to generate electricity?
5. What is the difference between solar power and hydro-electric power?