

<b>What I should already know</b>
<ul style="list-style-type: none"> <li>I know about maps of the UK and the world</li> <li>I know about the continents and oceans of the world</li> <li>I know that the weather and climate is different in locations around the world</li> </ul>

<b>Key Vocabulary</b>	
<b>borough</b>	A town or village that governs itself
<b>capital</b>	A town or city where the government of a country is based
<b>Civil right</b>	A right that has been given to a person by the government's laws
<b>climate</b>	The typical weather for an area
<b>colony</b>	An area controlled by a powerful country that is often far away
<b>indigenous</b>	Occurring naturally or originating in a particular place
<b>landmark</b>	A landscape feature that is easily seen and recognised from a distance
<b>Native American</b>	A member of one of the groups of people who were living in America before the Europeans arrived
<b>Physical feature</b>	An item on a landscape that has occurred naturally
<b>Human feature</b>	Human features like houses, roads and bridges are things that have been built by people
<b>president</b>	A person who has the highest position in a country that does not have a king or queen
<b>reservation</b>	An area of land managed by a Native American tribe
<b>state</b>	A large part of a country that has its own government
<b>tribe</b>	A group of people who live together and share beliefs, customs and language

<b>Knowledge</b>
<p>Welcome to the USA</p> <p>The United States of America (US or USA) is a country on the continent of North America and is made up of 50 states. 48 states are joined together on the mainland, Alaska is found to the north-west of Canada and Hawaii is an island state in the Pacific Ocean. The capital city of the USA is Washington DC, and each state has a capital. The USA has a wide range of environments and a diverse population.</p>
<p><b>New York</b></p> <p>New York is a state in the north-eastern area of the USA and shares a border with Canada. Its capital is Albany. New York state has a varied landscape that includes three mountain ranges, many rivers, plains and lakes. The climate can experience extremes from -10°C in the winter, to warmer temperatures of 25-30°C in summer.</p>
<p><b>New York City</b></p> <p>New York City is the former capital of the USA and is in the south-east of New York state. It is made up of 5 boroughs: Manhattan, Brooklyn, the Bronx, Queens and Staten Island. People from around the world visit New York City to experience the rich culture and enjoy its famous landmarks, such as Times Square, Central Park and the Statue of Liberty.</p>
<p><b>Native Americans</b></p> <p>Native Americans are the indigenous people of the USA. The Native American population began to decline when European explorers discovered the USA and created colonies. Many Native Americans lost their lives due to the spread of disease or through wars with Europeans. Many Native Americans were forced to move onto reservations as the European colonies grew in number. More recently, the US government has done more to protect the rights, cultures and traditions of Native Americans.</p>
<p><b>The Iroquois</b></p> <p>The Iroquois are a tribe of Native American people who have inhabited Ontario in Canada and parts of northern New York state for more than 4000 years. The Iroquois people originally lived near lakes and streams that provided water for drinking, fishing and a means of transportation. Today, the Iroquois are often referred to as the Haudenosaunee or Six Nations and are made up of a group that includes the Mohawk, Seneca, Oneida, Onondaga, Tuscarora and Cayuga Tribes.</p>

<b>What I will know by the end of this unit</b>
I can locate the USA on a map and know which continent it is in
I will know about regions in North America
I will know about states and cities
I will know about physical and human features of the USA
I will know about 1 native American tribe and how they lived

**Physical features**



Grand Canyon



Old Faithful geyser



Monument Valley



Niagara Falls

**Human features**



Statue of Liberty



Mount Rushmore



Hoover Dam



Golden Gate Bridge

Working Scientifically						
Ask relevant questions	Set up simple enquiries	Make careful observations	Gather, record and classify data	Record & report findings	Use results to draw simple conclusions	Use scientific evidence to answer questions & support findings

**What I should already know**

- Electricity is a type of energy which is used to power devices
- Electricity is usually carried by wires and is used for heating, lighting and sound
- Man-made sources of light and sound may need electricity to work

**Key Vocabulary**

<b>appliance</b>	A device or machine in your house which you use to do a job. Appliances often use electricity to make them work.
<b>battery</b>	Small sources of power for electrical items such as torches
<b>bulb</b>	Rounded glass part of a lamp which gives out light when electricity passes through it
<b>buzzer</b>	Electrical device that is used to make a sound
<b>cell</b>	Synonym for battery
<b>circuit</b>	Complete path around which electricity can flow. If a circuit is broken, and there is a gap, electricity cannot flow.
<b>component</b>	The parts that something is made of
<b>conductor</b>	Something that heat or electricity can pass through or along
<b>connection</b>	To join or link together. A loose connection is when components aren't joined together correctly
<b>crocodile clip</b>	At the end of a wire. Used to connect components
<b>current</b>	The flow of electricity through a wire or circuit
<b>device</b>	An object that has been invented for a specific purpose

**Key Vocabulary**

<b>electricity</b>	A form of energy that can be carried by wires and is used for heating and lighting, or to power devices
<b>insulator</b>	A non-conductor of electricity or heat. It doesn't let electricity pass through
<b>mains</b>	Where supply of water, gas or electricity enters a building
<b>metal</b>	A material which conducts electricity and heat
<b>motor</b>	Device that uses electricity or fuel to produce movement
<b>non-metal</b>	Material which doesn't conduct electricity
<b>plug</b>	Part of a device at the end of a wire
<b>power</b>	Energy, especially electricity, used to operate lights, heating and machinery
<b>short circuit</b>	Problem in an electrical circuit where 2 or more wires that aren't supposed to touch, do. This can result in a dangerously high current flowing through a circuit
<b>source</b>	Where something comes from
<b>switch</b>	Small control for an electrical device which is used to turn the device on or off
<b>symbol</b>	A drawing of a component
<b>wires</b>	Long, thin piece of metal used to carry an electric current

**Useful links**

- <https://www.explainthatstuff.com/electricity.html>
- <https://www.coolkidfacts.com/electricity-facts/>

**What I will know by the end of the unit**

Common appliances that run on electricity	Many household appliances and devices run on electricity. Some use batteries, others plug in and use mains electricity. Batteries come in many different sizes depending on the device they need to power
How to construct simple circuits and how switches affect a circuit	An electrical circuit contains a battery, or cell, connected to wires and another component (bulb, motor, or buzzer). The current flows through the wires to the component (bulb, buzzer, or motor). If there is a break in the circuit, or a loose connection, the component will not work.  A switch can be added to a circuit to control the flow of electricity. When the switch is off, electricity cannot flow and the component can be turned on or off. 
Common conductors and insulators	Materials which let electricity pass through are called conductors. Those that don't let electricity pass through are called insulators. Metals are good conductors so they can be used as wires in a circuit. Water also conducts electricity

**Investigate**

Research how to work safely with electricity. Make a poster on how to be safe. Can you find all the devices in your home that are powered by electricity? Do you have a smart meter in your home? How much electricity are you using in your house? What would your life be like without electricity? How would it be different?

**Safety First!**

Electricity is everywhere, so always be safe! Be careful of mains switches, open sockets and any signs to do with electricity. Water is an excellent electricity conductor, so it can be very dangerous to have electrical devices near water.

