

Year 4

Summer Term

Knowledge Organisers



The British Empire



TIMELINE

1497	1558	1570	1600	1807	1876	1939	1954
John Cabot sailed from Bristol to Newfoundland.	Queen Elizabeth I was born/ she paid for exploration of the world.	The Ortelius map was made: the first true map of the world.	The East India Company was formed.	The slave trade was abolished in the British Empire.	Queen Victoria is announced as the Empress of India.	World War II broke out in Europe.	World War II ended and many countries of the empire sought their independence.

Key vocabulary

Empire	A group of countries controlled by one powerful country
Colony	A country that is part of an empire
Commonwealth	A group of countries with a shared government
Slaves	The trading of human beings being taken against their will and treated like goods
Abolished	Something which is prohibited or outlawed in a certain area
Empress	The female leader of an empire
Raj	British sovereignty in India
Sovereignty	Supreme authority or ruler

Did you know? The East India Company was the most powerful company in the world! It had its own coat of arms, own army and controlled the trade of tea.



What is an empire?

An empire is a group of countries that is controlled by one powerful country. These were some of the countries in the British Empire between 16th and 20th century: Australia, Jamaica, South Africa, Tanzania.

General knowledge:

The British Navy played a major part in the country becoming a world power. Conflicts began between the British and other explorers over the valuables of colonies. Queen Elizabeth I invested a lot of money in exploring the world. The British Empire was founded on the slave trade where people were traded for iron, gold and guns and taken to be sold or traded against their will like objects: many slaves died. Key desirable imports from the colonies were sugar, tobacco, silk, tea, cotton, rum and spices. Gandhi campaigned for independence in India.



Lesson Sequence



1. Identify how sound is made



2. Explore how vibrations from sounds travel through a medium to the ear



3. Explore sound insulation



4. Explore volume



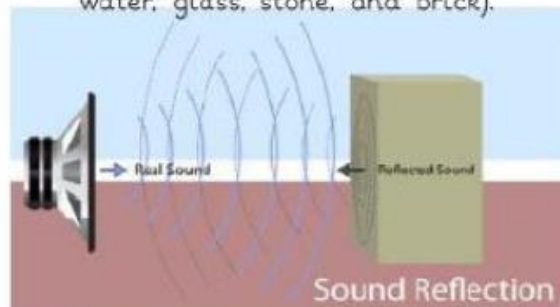
5. Explore pitch



6. Explore sounds

How sounds are made and travel

When objects vibrate, a sound is made. The vibration makes the air around the object vibrate and the air vibrations enter your ear. These are called sound waves. If an object is making a sound, a part of it is vibrating, even if you cannot see the vibrations. Sound waves travel through a medium (such as air, water, glass, stone, and brick).



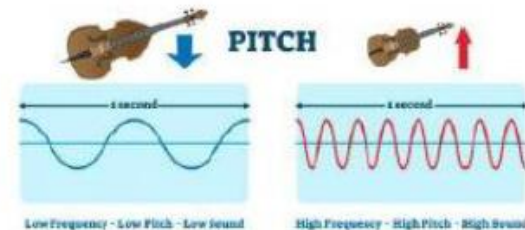
How do we hear?

The sound waves travel to the ear and make the eardrums vibrate. Messages are sent to the brain which recognises the vibrations as sounds.



Pitch

The pitch of a sound is how high or low it is. A squeak of mouse has a high pitch. A roar of a lion has a low pitch.



A high pitch sound is made because it has a high frequency. The sound source vibrates many times a second.

Volume

The volume of a sound is how loud or quiet it is. Quieter sounds have a smaller amplitude and less energy (smaller vibrations) and louder sounds have a bigger amplitude and more energy. The closer we are to a sound source the louder it will be. A train arriving at a station sounds loud. The further away from a sound the fainter it will be. A train in the distance sounds quieter.





Lesson Sequence



1. Understand electrical appliances and safety



2. Learn about electrical compounds in a series circuit



3. Investigate electrical circuits



4. Explore conductors and insulators



5. Learn about electrical switches



6. Investigate how electrical components can change within a circuit

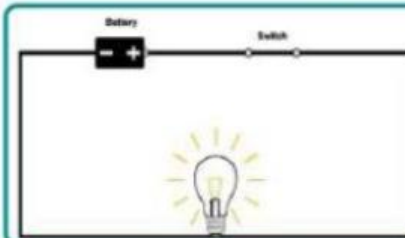
Key Facts

1. A circuit contains a battery (cell), wires and a component that requires electricity to work (bulb, motor or buzzer).
2. Electrical current flows through the wires from the battery (cell) to the bulb, motor or buzzer.
3. A switch can break or reconnect a circuit.
4. A switch controls the flow of the electrical current around the circuit. When the switch is off, the current cannot flow. This is not the same as an incomplete circuit.

Conductors and Insulators

- Materials that allow electricity to pass through to create a complete circuit are called electrical conductors.

- Materials that do not allow electricity to pass through and do not complete a circuit are called electrical insulators.

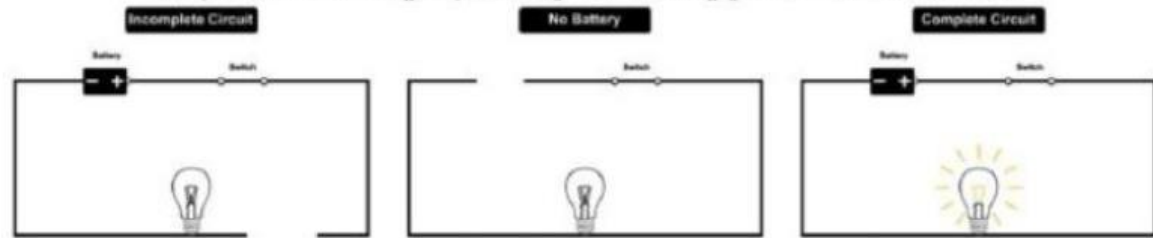


Simple Circuit

A complete circuit is a loop that allows electrical current to flow through wires.

Simple Electrical Circuit

These are complete circuits - they have a battery (cell) and a component (bulb). The wires are placed in the right places of the battery for the circuit to work.



These circuits will not work as they are incomplete.

Electrical Components

