

## What will you do in the mad science lab? Knowledge Organiser Year 5

<p><b>Science</b> A scientist is someone who researches to advance knowledge in an area of science.</p> <p>Materials can be separated by Evaporation and Condensation, Sieving and Magnetism.</p> <p>Winter is cold because the Earth is at its furthest distance from the Sun during its orbit. The Earth is on a tilted axis. When our hemisphere is tilted away from the Sun we experience winter.</p>		<p style="text-align: center;"><b>Science</b></p> <p>Sir Isaac Newton was an English scientist. He watched falling apples and discovered that the Earth must have a force which pulls objects towards the ground. We call this force Gravity.</p> <p>Albert Einstein is one of the greatest scientists of all time. He created the theory of relativity. It revealed no material can travel as fast as light.</p> <p>Katherine Johnson was an African American Mathematician whose calculations helped NASA to carry out their first space flights</p>			
<b>Scientist</b>	<b>Separating materials</b>	<b>Orbit</b>	<b>Gravity</b>	<b>Mathematician</b>	<b>Relativity</b>
<p style="text-align: center;"><b>History</b></p> <p>Aristotle is recognised as the world's first scientist. He was born in 384 BC in Greece and classified animals into different types.</p> <p>Albert Einstein is recognised as the most famous scientist of all time. He was a Jewish Scientist who escaped World War Two by moving to America.</p> <p>1800 Alesandro Volta invented the world's first battery.</p> <p>1876 Alexander Graham Bell invented the telephone.</p>	<p style="text-align: center;"><b>Religious Education:</b></p> <p>Chinese New Year is known as the Spring Lantern festival and lasts for 15 days.</p> <p>In 2023 Chinese New Year falls on January 22<sup>nd</sup>. It will be the Year of the Rabbit.</p> <p>Buddhism was brought to China by Monks from India.</p> <p>Buddhists do not believe a Buddha is a God. They believe he was a person who was enlightened.</p>	<p style="text-align: center;"><b>Computing</b></p> <p>Use a username and not your real name when gaming online to keep safe!</p> <p>Instead of using a photograph online use an Avatar to represent your face.</p> <p>Never share any personal information online such as your name, address or school.</p> <p>A digital footprint is the name given to any information we leave behind when online (such as anything we search, photos we upload and communication on social media).</p>	<p style="text-align: center;"><b>PSHE</b></p> <p>Benjamin Banneker was an African American astronomer who created America's first clock.</p> <p>Albert Einstein was dyslexic and thought to be unintelligent by his teachers! At the age of 16 he couldn't tie his shoelaces.</p> <p>Einstein was famous for having a bad memory, he struggled to remember dates, names and phone numbers. Thomas Edison, who invented the lightbulb, had ADHD.</p>	<p style="text-align: center;"><b>Facts</b></p> <p>Scientists estimate the Earth is 4.5 billion years old.</p> <p>25% of an apple is air which is why it will float in water!</p> <p>The human body has 206 bones!</p> <p>There are around 7 million scientists working and investigating around the world!</p> <p>The Earth's inner core is as hot as the sun!</p>	
<b>Population</b>	<b>Enlightened</b>	<b>Digital footprint</b>	<b>Dyslexic</b>	<b>Investigating</b>	