

<b>Subject Area:</b> <i>Science – Year 8</i>		
<b>Autumn 1 - Weeks 1-6 (6 weeks)</b>	<b>Autumn 2 - Weeks 8-15 (8 weeks)</b>	<b>Spring 1 – Weeks 16-20 (5 weeks)</b>
<b>Content</b> <b>Chemical reactions</b> <ul style="list-style-type: none"> <li>Recap states of matter</li> <li>Chemical reactions with word and symbol equations</li> <li>Rates of reaction</li> </ul>	<b>Content</b> <b>Organ systems</b> <ul style="list-style-type: none"> <li>Recap of cell structure and life processes</li> <li>The reproductive system and fertilisation</li> <li>Food groups and the digestive system</li> <li>Gas exchange and the circulatory system</li> </ul>	<b>Content</b> <b>Energy</b> <ul style="list-style-type: none"> <li>Review the particle theory</li> <li>Heating and Cooling curves</li> <li>Conduction, convection and radiation</li> <li>Energy efficiency and specific heat capacity</li> </ul>
<b>Assessment objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>Draw diagrams for states of matter and describe changes in state</li> <li>Know how to carry out different chemical reactions and represent in equation form</li> <li>Describe factors that increase the rate of a chemical reaction.</li> </ul>	<b>Assessment objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>Describe the structure and function of different cells</li> <li>Describe the reproductive organs and the process of fertilisation</li> <li>Describe the structure and function of the digestive system including enzymes</li> <li>Explain the process of respiration.</li> </ul>	<b>Assessment objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>Investigate changes in state</li> <li>Compare heat and temperature and investigate the difference</li> <li>Compare methods of heat transfer</li> <li>Calculate energy efficiency and display as diagrams.</li> </ul>
KAT- Week 7 (6 weeks of learning and prep)	KAT– Week 21 (13 weeks of learning and prep)	
<b>Spring 2- Weeks 22 (end of spring 1) -27 (6 weeks)</b>	<b>Summer 1 – Weeks 28-32 (5 weeks)</b>	<b>Summer 2 – Weeks 34-40 (7 weeks)</b>
<b>Content</b> <b>Health, Fitness and Disease</b> <ul style="list-style-type: none"> <li>Pathogens</li> <li>Body defence system</li> <li>Heart disease, diabetes and cancer</li> </ul>	<b>Content</b> <b>Earth and Cycles</b> <ul style="list-style-type: none"> <li>The Earth and atmosphere</li> <li>Rocks</li> <li>Cycles</li> </ul>	<b>Content</b> <b>Space</b> <ul style="list-style-type: none"> <li>The planets</li> <li>The solar system and beyond</li> <li>Space exploration</li> </ul>
<b>Assessment objectives</b> <ul style="list-style-type: none"> <li>Know the causes, symptoms and treatment of non-communicable diseases</li> <li>Demonstrate knowledge of microbes and immunity</li> <li>Use microscopes to identify microbes</li> <li>Explain how Edward Jenner developed vaccinations.</li> </ul>	<b>Assessment objectives</b> <ul style="list-style-type: none"> <li>Describe the composition of Earth and its atmosphere</li> <li>Evaluate the impact of human activity on the Earth</li> <li>Describe processes in the rock cycle</li> <li>Describe how materials are cycled on Earth</li> </ul>	<b>Assessment objectives</b> <ul style="list-style-type: none"> <li>Compare the Earth to other planets in the solar system</li> <li>Explain what makes up space beyond the planets</li> <li>Describe how humans are exploring space</li> </ul>
KAT – week 33 (14 weeks of learning and prep)		