

**Year 11 Spring Term 2**

19/02/2024	26/02/2024	04/03/2024	11/03/2024	18/03/2024
week 21	week 22	week 23	week 24	week 25
B8 Exchange and Transport	P14-15 Particle Model and Forces			C16-17 Fuels and Earth Science
<p><b>B8 Exchange and Transport</b></p> <p>Lis 1-4 were carried out in the last half term but are included here to show the progression of the topic.</p> <ol style="list-style-type: none"> <li>How are substances transported in organisms?</li> <li>How are the lung adapted for gas exchange?</li> <li>What are the components of blood and what are their functions?</li> <li>How are blood vessels adapted for their functions?</li> <li>What is the structure of the heart and how does it work?</li> <li>How does exercise affect our heart?</li> <li>What is aerobic respiration?</li> <li>What is anaerobic respiration?</li> </ol>	<p><b>P14 Particle Model</b></p> <ol style="list-style-type: none"> <li>How does the particle model describe solids, liquids, and gasses?</li> <li>How do we calculate density of regular and irregular objects?</li> <li>Core practical: Investigate the densities of solid and liquids.</li> <li>What happens to particles when substances change state (kinetic theory)?</li> <li>What is specific Latent heat and how do we calculate it?</li> <li>What is specific heat capacity and how do we calculate it?</li> <li>Core Practical: Investigate the properties of water by determining the specific heat capacity of water and obtaining a temperature-time graph for melting ice.</li> <li>What is gas pressure, and how does temperature affect gas pressure?</li> </ol>	<p><b>P15 Forces and Matter</b></p> <ol style="list-style-type: none"> <li>What is elastic distortion and how do we calculate it?</li> <li>How much energy is transferred in springs, what is the relationship between force and extension?</li> <li>Core Practical: Investigate the extension and work done when applying forces to a spring. (2 lessons)</li> </ol>	<p><b>C16 Fuels</b></p> <ol style="list-style-type: none"> <li>What are hydrocarbons and where do they come from?</li> <li>How do we separate the useful parts out of crude oil, how do we make some parts more useful?</li> <li>What are alkanes and what are their properties?</li> <li>What are the products of complete combustion?</li> <li>What are the products of incomplete combustion?</li> <li>How does burning fuels produce pollution like acid rain?</li> </ol> <p>Lis 6 and 7 along with C17 Earth Science will continue after half term.</p>	