Year Grou	b: 11 Subject: Triple Science	Term: Spring 2021		
Торіс	Key Learning po	pints	Assessment	
<b>Biology:</b> Transport and homeostasis	<ul> <li>End Point: To understand how exchange surfaces in mammals enable efficient exchange of substances. To understand how animals coordinate and control their internal environment</li> <li>Know the general features of exchange surfaces to include the idea of increased surface area, a short diffusion pathway and maintenance of a concentration gradient increasing the rate of diffusion.</li> <li>Know that smaller organisms with a large SA:V can obtain reactants for chemical processes via simple diffusion whereas the larger an organism gets the smaller the SA:V is meaning they require specialised exchange surfaces.</li> <li>Know the function and constituent parts of the circulatory system.</li> <li>Know the aerobic and anaerobic respiration equation.</li> <li>Know the parts of the endocrine system and how they control homeostasis including thermoregulation, osmoregulation, glucose regulation and general metabolism.</li> <li>Know the stages in the menstrual cycle and how hormones control these stages.</li> <li>Know the trude oil and natural gas are hydrocarbons formed from organic material over millions of years.</li> <li>Know that crude oil and natural gas are hydrocarbons formed from organic material over millions of years.</li> <li>Know that hydrocarbons can be broken down into more useful substances using a process called cracking.</li> <li>Know that hydrocarbons can be broken down into more useful substances using a process called cracking.</li> <li>Know the different forms or pollution given off by combustion to include the effect of greenhouse gases and acid rain.</li> <li>Know the different forms or pollution given off by combustion to include the effect of greenhouse gases and acid rain.</li> <li>Know the different forms or pollution given off by combustion to include the effect of greenhouse gases and acid rain.</li> <li>Know the different forms or pollution given off by combustion to include the effect of years.</li> </ul>		<ul> <li>Students will be formatively assessed during each topic by past paper question end of topic tests completed in lesson time.</li> <li>Students will complete a variety of consolidation homework throughout the term</li> <li>After each end of topic test there will be an opportunity for students to review their understanding</li> <li>Teachers will provide students with targeted feedback, based on their test performance</li> <li>At the end of the term</li> </ul>	
<b>Chemistry:</b> Fuels and Earth's atmosphere				
<b>Physics:</b> Particle model, forces and matter	<ul> <li>End Point: To understand how the particle model explains the propision is transferred to or from a substance.</li> <li>Know that substances can be represented at the atomic lee</li> <li>Understand what is meant by the term density in terms of the mass and volume of an object.</li> <li>Know that changes of state require energy and that this micronstant whilst changing state.</li> <li>Know that there is a linear relationship between force and exceeds the elastic limit of the spring.</li> <li>Know how to calculate the spring constant of a spring give spring. To be able to calculate the work done by a spring understand the link between the density of a fluid and how particles.</li> </ul>	evel with the use of particle diagrams. particles and be able to calculate density given neans the temperature of a substance will remain extension of a spring until the force applied en the force applied and the extension of the using the spring constant.	students will have a summative assessment. This will be a 60-mark exam paper (20 marks from each discipline), which will be marked by their teacher.	