

## Year 9 Summer term 1

Year 9 students will complete their final PAZ of the year in the first week back. They will then move onto a topic from each of the sciences.

	05/06//2023	12/06/23	19/06/23	26/06/23	03/07/23	10/07/23	17/07/23
	week 33	week 34	week 35	week 36	week 37	week 38	Week 39
9N1 and 9S1	PAZ	<b><u>C3&amp;4 Atoms and The Periodic Table</u></b> <ol style="list-style-type: none"> <li>How has the model of the atom changed over time?</li> <li>How do we calculate the number of protons, neutrons and electrons in an atom of an element?</li> <li>What happens to an atom when you change the number of neutrons?</li> <li>How was the periodic table developed?</li> <li>How is the periodic table arranged?</li> <li>Where are the electrons found in the atom, and what is their configuration?</li> </ol>		<b><u>P2 Forces and Motion</u></b> <ol style="list-style-type: none"> <li>What is Newtons 1<sup>st</sup> law and how do we use it?</li> <li>What is the difference between mass and weight?</li> <li>What is Newtons 2<sup>nd</sup> law and how do we use it?</li> <li>Core Practical: Investigate the relationship between force, mass and acceleration</li> <li>What is Newtons 3<sup>rd</sup> law and how do we use it?</li> <li>How long does it take a car to stop and why?</li> <li>Why are car crashes so dangerous?</li> </ol>		<b><u>B9 Ecosystems</u></b> <ol style="list-style-type: none"> <li>What is an ecosystem?</li> <li>How do abiotic factors affect ecosystems?</li> <li>How do biotic factors affect ecosystems?</li> <li>How are organisms dependent on each other?</li> <li>How do humans affect ecosystems?</li> <li>How can biodiversity be preserved?</li> <li>How does nitrogen cycle through the environment?</li> <li>How does carbon cycle through the environment?</li> <li>How does water cycle through the environment?</li> </ol>	
9N2 and 9S2		<b><u>C3&amp;4 Atoms and The Periodic Table</u></b> <ol style="list-style-type: none"> <li>How has the model of the atom changed over time?</li> <li>How do we calculate the number of protons, neutrons and electrons in an atom of an element?</li> <li>What happens to an atom when you change the number of neutrons?</li> <li>How was the periodic table developed?</li> <li>How is the periodic table arranged?</li> </ol>		<b><u>P2 Forces and Motion</u></b> <ol style="list-style-type: none"> <li>What is Newtons 1<sup>st</sup> law and how do we use it?</li> <li>What is the difference between mass and weight?</li> <li>What is Newtons 2<sup>nd</sup> law and how do we use it?</li> <li>Core Practical: Investigate the relationship between force, mass and acceleration</li> <li>What is Newtons 3<sup>rd</sup> law and how do we use it?</li> </ol>		<b><u>B9 Ecosystems</u></b> <ol style="list-style-type: none"> <li>What is an ecosystem?</li> <li>How do abiotic factors affect ecosystems?</li> <li>How do biotic factors affect ecosystems?</li> <li>How are organisms dependent on each other?</li> <li>How do humans affect ecosystems?</li> <li>How can biodiversity be preserved?</li> </ol>	

		6. Where are the electrons found in the atom, and what is their configuration?	6. How long does it take a car to stop and why? 7. Why are car crashes so dangerous?	7. How does nitrogen cycle through the environment? 8. How does carbon cycle through the environment? 9. How does water cycle through the environment?
9N3 and 9S3		<p><b><u>C3&amp;4 Atoms and The Periodic Table</u></b></p> 1. How has the model of the atom changed over time? 2. How do we calculate the number of protons, neutrons and electrons in an atom of an element? 3. What happens to an atom when you change the number of neutrons? 4. How was the periodic table developed? 5. How is the periodic table arranged? 6. Where are the electrons found in the atom, and what is their configuration?	<p><b><u>P2 Forces and Motion</u></b></p> 1. What is Newtons 1 <sup>st</sup> law and how do we use it? 2. What is the difference between mass and weight? 3. What is Newtons 2 <sup>nd</sup> law and how do we use it? 4. Core Practical: Investigate the relationship between force, mass and acceleration 5. What is Newtons 3 <sup>rd</sup> law and how do we use it? 6. How long does it take a car to stop and why? 7. Why are car crashes so dangerous?	<p><b><u>B9 Ecosystems</u></b></p> 1. What is an ecosystem? 2. How do abiotic factors affect ecosystems? 3. How do biotic factors affect ecosystems? 4. How are organisms dependent on each other? 5. How do humans affect ecosystems? 6. How can biodiversity be preserved? 7. How does nitrogen cycle through the environment? 8. How does carbon cycle through the environment? 9. How does water cycle through the environment?