## Year 10 Spring term 1

Year 10 students will study 1 physics and 1 chemistry topic this half term and will start a 3<sup>rd</sup> topic either in chemistry or biology.

Class	Taskan	02/01/2023 Bank Hol and Inset	09/01/2023	16/01/2023	23/01/2023	30/01/2023	06/02/2023
Class 10ns/Sc1 and 10ns/Sc2	SHI	r       week 15       week 16       week 17       week 18       week 19         C8 Acids and Alkalis         1.       What are acids and alkalis/bases?         2.       What are the dangers of acids and alkalis?         3.       What makes an acid? (H only)         4.       How do acids and bases react?         5.       Core practical: Preparing Copper Sulfate         6.       How do acids and metal hydroxides react?         7.       Core Practical: Investigating Neutralisation         8.       What happens to the particles during neutralisation?         9.       How do acids and metals and carbonates react?         10.       Which salts are soluble?					
	OBO	P4&5 Waves and Electromagnetic Spectrum1. How can we describe waves?2. How do we measure and calculate the speed of a wave?3. How are waves reflected?4. How are waves refracted?5. Core practical: Investigating waves6. What are electromagnetic waves?7. Core practical: Investigating refraction8. What are the parts of the EM spectrum?9. What are the parts of the EM spectrum used for and what are the dangers of the EM spectrum?					(start) B6 Plant Structures and Functions 1. What is photosynthesis? 2. What are the factors that affect photosynthesis?

10ns/Sc3 and 10ns/Sc4	JBE	C8 Acids and Alkalis1. What are acids and alkalis/bases?2. What are the dangers of acids and alkalis?3. What makes an acid? (H only)4. How do acids and bases react?5. Core practical: Preparing Copper Sulfate6. How do acids and metal hydroxides react?7. Core Practical: Investigating Neutralisation8. What happens to the particles during neutralisation?9. How do acids and metals and carbonates react?10. Which salts are soluble?	(start) C9 Quantitative Chemistry 1. How do I calculate relative formula mass? 2. How do I calculate empirical formula?
	HZA	P4&5 Waves and Electromagnetic Spectrum         1. How can we describe waves?         2. How do we measure and calculate the speed of a wave?         3. How are waves reflected?         4. How are waves refracted?         5. Core practical: Investigating waves         6. What are electromagnetic waves?         7. Core practical: Investigating refraction         8. What are the parts of the EM spectrum?         9. What are the parts of the EM spectrum used for and what are the dangers of the EM spectrum?	(start) B6 Plant Structures and Functions 1. What is photosynthesis? 2. What are the factors that affect photosynthesis?

10ns/Sc5	CWE	<ul> <li><u>C8 Acids and Alkalis</u></li> <li>1. What are acids and alkalis/bases?</li> <li>2. What are the dangers of acids and alkalis?</li> <li>3. What makes an acid? (H only)</li> <li>4. How do acids and bases react?</li> <li>5. Core practical: Preparing Copper Sulfate</li> <li>6. How do acids and metal hydroxides react?</li> <li>7. Core Practical: Investigating Neutralisation</li> <li>8. What happens to the particles during neutralisation?</li> <li>9. How do acids and metals and carbonates react?</li> <li>10. Which salts are soluble?</li> </ul>	<ul> <li>P4&amp;5 Waves and Electromagnetic Spectrum</li> <li>1. How can we describe waves?</li> <li>2. How do we measure and calculate the speed of a wave?</li> <li>3. How are waves reflected?</li> <li>4. How are waves refracted?</li> <li>5. Core practical: Investigating waves</li> <li>6. What are electromagnetic waves?</li> <li>7. Core practical: Investigating refraction</li> <li>8. What are the parts of the EM spectrum?</li> <li>9. What are the parts of the EM spectrum used for and what are the damager of the EM spectrum used for and what</li> </ul>			
	BNE	B6 Plant Structures and Functions         1. What is photosynthesis?         2. What are the factors that affect photosynthesis?         3. Core practical: Light intensity and photosynthesis         4. How do plants absorb water and minerals?         5. How are substances transported around plants?				
10ns/Sc6	JTO	<ul> <li>P4&amp;5 Waves and Electromagnetic Spectrum</li> <li>How can we describe waves?</li> <li>How do we measure and calculate the speed of a wave?</li> <li>How are waves reflected?</li> <li>How are waves refracted?</li> <li>Core practical: Investigating waves</li> <li>What are electromagnetic waves?</li> <li>Core practical: Investigating refraction</li> <li>What are the parts of the EM spectrum?</li> <li>What are the parts of the EM spectrum used for and what are the dangers of the EM spectrum?</li> </ul>	<ul> <li><u>C8 Acids and Alkalis</u></li> <li>1. What are acids and alkalis/bases?</li> <li>2. What are the dangers of acids and alkalis?</li> <li>3. What makes an acid? (H only)</li> <li>4. How do acids and bases react?</li> <li>5. Core practical: Preparing Copper Sulfate</li> <li>6. How do acids and metal hydroxides react?</li> <li>7. Core Practical: Investigating Neutralisation</li> <li>8. What happens to the particles during neutralisation?</li> <li>9. How do acids and metals and carbonates react?</li> <li>10. Which salts are soluble?</li> </ul>	<ul> <li>(start) B6 Plant</li> <li>Structures and</li> <li>Functions</li> <li>1. What is photosynthesis?</li> <li>2. What are the factors that affect photosynthesis?</li> <li>3. Core practical: Light intensity and photosynthesis</li> <li>4. How do plants absorb water and minerals?</li> </ul>		

			P4&5 Waves and Electromagnetic	
			Spectrum	(start) B6 Plant
			1. How can we describe waves?	Structures and
			2. How do we measure and	Functions
		C8 Acids and Alkalis	calculate the speed of a wave?	1. What is
		1. What are acids and alkalis/bases?	3. How are waves reflected?	photosynthesis?
		2. What are the dangers of acids and alkalis?	4. How are waves refracted?	2. What are the
		3. What makes an acid? (H only)	5. Core practical: Investigating	factors that
		4. How do acids and bases react?	waves	affect
10ns/Sc7	RPI	5. Core practical: Preparing Copper Sulfate	6. What are electromagnetic	photosynthesis?
		6. How do acids and metal hydroxides react?	waves?	3. Core practical:
		7. Core Practical: Investigating Neutralisation	7. Core practical: Investigating	Light intensity
		8. What happens to the particles during neutralisation?	refraction	and
		9. How do acids and metals and carbonates react?	8. What are the parts of the EM	photosynthesis
		10. Which salts are soluble?	spectrum?	4. How do plants
			9. What are the parts of the EM	absorb water
			spectrum used for and what	and minerals?
			are the dangers of the EM	
			spectrum?	