

Year 11 Summer term 1

In this half term students will complete one of each topic in biology, chemistry and physics. These are in different orders to allow full use of practical equipment during the students learning.

Class	Teacher	17/04/2023	24/04/2023	01/05/2023	08/05/2023	15/05/2023	22/05/2023
		week 27	week 28	week 29	week 30	week 31	week 32
11ns/Sc1 and 11ns/Sc2	BNE	<u>B9 Ecosystems</u> <ol style="list-style-type: none">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?	Retrieval Week	<u>C16&17 Fuels and Earth Sciences</u> <ol style="list-style-type: none">1. What are hydrocarbons and where do they come from?2. How is crude oil separated?3. What are alkanes?4. What is the difference between complete and incomplete combustion?5. What types of pollution do we get from combustible fuels?6. How do we break down large hydrocarbons into more useful ones?7. How did the atmosphere develop from the start of the earth to today?			

		9. How does water cycle through the environment?		
	CWE	<u>P10&11 Magnetism and the motor effect</u> <ol style="list-style-type: none"> 1. What are magnets and what do their forces look like? 2. How can we make electromagnets? 3. How do magnetic forces work? (H) 4. Why are transformers used in the national grid? 5. How do transformers work? 6. Explain electromagnetic induction (H) 		<u>P14&15 Particle Model, Forces and Matter</u> <ol style="list-style-type: none"> 1. How are particles and their states of matter linked to density? 2. Core Practical: Investigate the densities of solid and liquids. 3. How do changes in energy affect particles? 4. What is specific latent heat? 5. What is specific heat capacity? 6. Core Practical: Investigate the properties of water 7. What is gas pressure?
11ns/Sc3 and 11ns/Sc4	JBE	<u>B9 Ecosystems</u> <ol style="list-style-type: none"> 1. What is an ecosystem? 2. How do abiotic factors affect ecosystems? 3. How do biotic factors affect ecosystems? 		<u>C16&17 Fuels and Earth Sciences</u> <ol style="list-style-type: none"> 1. What are hydrocarbons and where do they come from? 2. How is crude oil separated? 3. What are alkanes? 4. What is the difference between complete and incomplete combustion? 5. What types of pollution do we get from combustible fuels? 6. How do we break down large hydrocarbons into more useful ones? 7. How did the atmosphere develop from the start of the earth to today?

		<ol style="list-style-type: none"> How are organisms dependent on each other? How do humans affect ecosystems? How can biodiversity be preserved? How does nitrogen cycle through the environment? How does carbon cycle through the environment? How does water cycle through the environment? 		
JTO	<u>P10&11 Magnetism and the motor effect</u> <ol style="list-style-type: none"> What are magnets and what do their forces look like? How can we make electromagnets? 		<u>P14&15 Particle Model, Forces and Matter</u> <ol style="list-style-type: none"> How are particles and their states of matter linked to density? Core Practical: Investigate the densities of solid and liquids. How do changes in energy affect particles? What is specific latent heat? What is specific heat capacity? Core Practical: Investigate the properties of water What is gas pressure? 	

		3. How do magnetic forces work? (H) 4. Why are transformers used in the national grid? 5. How do transformers work? 6. Explain electromagnetic induction (H)		
11ns/Sc6	HZA	<u>P10&11 Magnetism and the motor effect</u> 1. What are magnets and what do their forces look like? 2. How can we make electromagnets? 3. How do magnetic forces work? (H) 4. Why are transformers used in the national grid? 5. How do transformers work? 6. Explain electromagnetic induction (H)		<u>P14&15 Particle Model, Forces and Matter</u> 1. How are particles and their states of matter linked to density? 2. Core Practical: Investigate the densities of solid and liquids. 3. How do changes in energy affect particles? 4. What is specific latent heat? 5. What is specific heat capacity? 6. Core Practical: Investigate the properties of water 7. What is gas pressure?
	OBO	<u>B9 Ecosystems</u> 1. What is an ecosystem?		<u>C16&17 Fuels and Earth Sciences</u> 1. What are hydrocarbons and where do they come from?

		<div>2. How do abiotic factors affect ecosystems?</div> <div>3. How do biotic factors affect ecosystems?</div> <div>4. How are organisms dependent on each other?</div> <div>5. How do humans affect ecosystems?</div> <div>6. How can biodiversity be preserved?</div> <div>7. How does nitrogen cycle through the environment?</div> <div>8. How does carbon cycle through the environment?</div> <div>9. How does water cycle through the environment?</div>		<div>2. How is crude oil separated?</div> <div>3. What are alkanes?</div> <div>4. What is the difference between complete and incomplete combustion?</div> <div>5. What types of pollution do we get from combustible fuels?</div> <div>6. How do we break down large hydrocarbons into more useful ones?</div> <div>7. How did the atmosphere develop from the start of the earth to today?</div>	
11ns/Sc7	RPI	<u>C16&17 Fuels and Earth Sciences</u>		<u>C16&17 Continued</u>	<u>P14&15 Particle Model, Forces and Matter</u> <div>1. How are particles and their states of matter linked to density?</div>

		<ol style="list-style-type: none"> 1. What are hydrocarbons and where do they come from? 2. How is crude oil separated? 3. What are alkanes? 4. What is the difference between complete and incomplete combustion? 5. What types of pollution do we get from combustible fuels? 6. How do we break down large hydrocarbons into more useful ones? 7. How did the atmosphere develop from the start of the earth to today? 		<ol style="list-style-type: none"> 2. Core Practical: Investigate the densities of solid and liquids. 3. How do changes in energy affect particles? 4. What is specific latent heat? 5. What is specific heat capacity? 6. Core Practical: Investigate the properties of water 7. What is gas pressure?
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