

Year 11 Combined Science HIGHER 2023-2024

Curriculum Intent We believe that students deserve a broad and ambitious Science curriculum that enriches in skill and knowledge, which ignites curiosity and prepares them well for future learning or employment. Our curriculum is sequenced to build upon prior knowledge learnt from KS1, KS2 and KS3 and firmly embed the precise learning points that pupils need to succeed in their qualification and also to go on to further career success.

- 11W Thursday Week A and Week B are RETEACH lessons.

[illegible]

		also carry information. RP- Standing wave and Ripple tank (See SOW for more detail)					Waves key tier 3 and tier 2 words with pictures	
16 th October	Electromagnetism and Magnetism	Electromagnetic effects are used in a wide variety of devices. That when current flows around a magnet it can produce movement.	Exit Ticket for Magnetism and Electromagnetism Complete Physics Paper 1	Engineers make use of the fact that a magnet moving in a coil can produce electric current. Using the Fleming's rule for the motor effect			Tier 2 and Tier 3 key terms to be printed and glued in books	Resilience Teamwork Focus
Half term 23 rd October -27 th October								
AUTUMN 2								
30 th October	Ecology							
7 th November								
13 th November								
20 th November		Describe and carry out field work using different sampling techniques. Calculate sample size. Interpret and analyse data from sampling. Look at how ecosystems interact. Explain the impact of humans on the population. Learn about the recycling of carbon, nitrogen(decay) and water	Knowledge Retrieval Questions - Exit Ticket- Ecology Marked by teacher. Pupils correct, teacher input and pupils given similar questions to demonstrate progress. P1 Paper 2021- give pupils a chance to demonstrate retention	Look at the role of a conservationist and investigating more sustainable ways to live.	Moral- Social- Cultural - Understand there are cultural issues that need to be considered when dealing with sustainability.	BV- Mutual Respect and Tolerance- Pupils have a right to learn about other cultures and must accept these cultures will have different views. Knowing this as scientists we inform using evidence about sustainability	Subject and disciplinary key terms Sample Representative Sustainability Key tier 3 and tier 2 words with pictures	Wisdom Humanity Justice

27 th November	Mocks (B1, C1 and P1)								
4 th December	The Earth's Resources	Industries use the Earth's natural resources to manufacture useful products. In order to operate sustainably, chemists seek to minimise the use of limited resources, use of energy, waste and environmental impact in the manufacture of these products	Knowledge Retrieval Exit ticket - Chemical Resources	Industries learning to use natural resources in a sustainable way. Life cycle assessment RP: Making potable water Process of making waste water	Moral - Everyone entitled to water to survive.	Justice- Ensure water is produced in a way that is safe. Mutual Respect- When considering life cycle assessment of products	Tier 2 and Tier 3 words for topic to be glued into books	Resilience Teamwork - for practical work and group work Critical Thinking	
11 th December									
End of Term 18 th December-1 st January 2024									
SPRING 1									
2 nd January	Mocks (B2, C2, P2)								
8 th January									
15 th January	The Earth's Atmosphere	Earth's atmosphere is dynamic and forever changing. The causes of these changes are sometimes man- made and sometimes part of many natural cycles	Exit Ticket for The Earth's Atmosphere	Analysing the changes in atmosphere. Monitoring pollutant levels and causes. Data analysis	Moral	Individual Liberty Democracy Mutual respect. When considering human affect on the atmosphere	Tier 2 and tier 3 words for the topics to be printed and placed in books	Wisdom Humanity	
22 nd January									
5 th February	Reteach based on assessment data								
Half term 12 th February -16 th February									
SPRING 2									
19 th February	Reteach based on assessment data								

26 th February								
4 th March								
11 th March								
18 th March								
25 th March								
End of Term 29 th March- 12 th April								
SUMMER 1								
15 th April	Reteach based on assessment data							
22 nd April								
29 th April								
6 th May			Actual Exams	Actual Exams	Actual Exams	Actual Exams	Actual Exams	Actual Exams
13 th May			Actual Exams	Actual Exams	Actual Exams	Actual Exams	Actual Exams	Actual Exams
20 th May			Actual Exams	Actual Exams	Actual Exams	Actual Exams	Actual Exams	Actual Exams
Half Term 27 th May-31 st May								
Summer 2								
3 rd June		Actual Exams						
10 th June		Actual Exams						
17 th June								
24 th June								
1 st July								
8 th July								
22 nd July								