

Now that the revised curriculum has been taught, please consider the Implementation and Impact of the curriculum you taught.
What changes might need to be made to the Curriculum Intent (See Curriculum Map and Overviews) in light of this year's experiences?

Year 9 Overview 2023-24 – Biology

Date	Wk	Week	Units Studied & Learning Outcomes	Key Concepts & Assessment						
8 weeks (8 Lessons) (38 Days)										
Tues 5-Sep	A	1	Overview of unit: Pathogens & disease (5 lessons) Vaccinations & antibiotics (3 lessons) Sequence of Unit-Pathogens 1.Pathogens (1 lesson) 2-3. Diseases caused by pathogens (1-2 lesson) 4. Malaria (1 lesson) 5. Defending against pathogens (1 lesson) 6. Vaccination and Immunity (1 lesson) 7. Painkillers and Antibiotics (1 lesson) Learning Outcomes: • GW: State the four types of pathogens and the diseases they cause • BI: Describe ways to reduce/ prevent the effects of pathogens. • EW: Evaluate the role of medical testing in this prevention. Recall of knowledge, application of knowledge, identify patterns from observations, and interpret data. <table><tr><th>Prior (Y8)</th><th>Now (Y9)</th><th>Next (Y12)</th></tr><tr><td>Year 8- Health Topic</td><td>Understand Pathogens and disease.</td><td>Year 12 – Cell recognition and the Immune system</td></tr></table>	Prior (Y8)	Now (Y9)	Next (Y12)	Year 8- Health Topic	Understand Pathogens and disease.	Year 12 – Cell recognition and the Immune system	
Prior (Y8)	Now (Y9)	Next (Y12)								
Year 8- Health Topic	Understand Pathogens and disease.	Year 12 – Cell recognition and the Immune system								
11-Sep	B	2								
18-Sep*	A	3								
25-Sep	B	4								
2-Oct	A	5								
9-Oct	B	6								
16-Oct	A	7								
23-Oct	B	8								

Half-Term			7 weeks (7 lessons) (34 Days)								
6-Nov	A	9	Overview of Unit: Medical testing (2 lessons) Health & disease (5 lessons) Sequence of Unit-Health and Disease 8-9. Medical testing (1-2 lessons) 10. What is health? - Communicable and non- communicable disease (1 lesson) 11. Cancer (1 lesson) 12.The effects of Alcohol on the body and society (1 lesson) 13.The effects of Smoking on health (1 lessons) 14.Diet and exercise (1 lesson) <table><tr><th>Prior (Y8)</th><th>Now (Y9)</th><th>Next (Y12)</th></tr><tr><td>Year 8- Health topic</td><td>Understand lifestyle can contribute to disease</td><td>Year 12 – N/A</td></tr></table> • GW: Describe ways to stay healthy and recall what is meant by non-communicable diseases. • BI: Describe the effects of specific diseases on the health of individuals. • EW: Explain how most non communicable disease can be linked to lifestyle and evaluate data relating to this. • Recall of knowledge, application of knowledge, identify patterns from observations and interpret data.	Prior (Y8)	Now (Y9)	Next (Y12)	Year 8- Health topic	Understand lifestyle can contribute to disease	Year 12 – N/A		
Prior (Y8)	Now (Y9)	Next (Y12)									
Year 8- Health topic	Understand lifestyle can contribute to disease	Year 12 – N/A									
13-Nov	B	10									
20-Nov	A	11									
27-Nov	B	12									
4-Dec	A	13									
11-Dec	B	14									
18-Dec	A	15									

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Christmas Holiday			6 weeks (6 lessons) (30 Days)							
8-Jan	B	16	Overview of unit: Revision, Exam & Cells (6 lessons) Sequence of Unit-Cells and Microscopy 15-16. Revision (1-2 lesson) 17. Complete exam (1 lesson) 18. Go through exam (1-2 lesson) 19.Plant and Animal cells (1 Lesson) <table><tr><th>Prior</th><th>Current</th><th>Next</th></tr><tr><td>Year 7- Cells, tissue, organs</td><td>Understand organisation within organisms</td><td>Year 12-</td></tr></table> GW: Recall the characteristics of living things, identify different specialised cells BI: Pupils can state the parts that are found in an animal and plant cell, Pupils can state the function of different types of cells & their roles EW: Pupils can explain the roles of each cell organelles, Relate structure of a cell to its function	Prior	Current	Next	Year 7- Cells, tissue, organs	Understand organisation within organisms	Year 12-	•
Prior	Current	Next								
Year 7- Cells, tissue, organs	Understand organisation within organisms	Year 12-								
15-Jan	A	ST1								
22-Jan	B	ST1								
29-Jan	A	19								
5-Feb	B	20								
12-Feb	A	21								
Half-Term			5 weeks (5 lessons) (24 Days)							
26-Feb	B	22	Cells and microscopy (5 lessons) 20 -21.Specialised Cells (1-2 lessons) 22.Prokaryotes and Eukaryotes (1 lessons) 23.Microscopy- calculating IAM (1 lessons) 24.Types of microscope (1 lessons) <table><tr><th>Prior</th><th>Current</th><th>Next</th></tr><tr><td>Year 7- Cells, tissue, organs</td><td>Understand organisation within organisms</td><td>Year 12- cells & microscopy</td></tr></table> GW: Recall the characteristics of living things, identify different specialised cells BI: Pupils can state the parts that are found in an animal and plant cell, Pupils can state the function of different types of cells & their roles EW: Pupils can explain the roles of each cell organelles, Relate structure of a cell to its function	Prior	Current	Next	Year 7- Cells, tissue, organs	Understand organisation within organisms	Year 12- cells & microscopy	
Prior	Current	Next								
Year 7- Cells, tissue, organs	Understand organisation within organisms	Year 12- cells & microscopy								
4-Mar	A	23								
11-Mar	B	24								
18-Mar	A	25								
25-Mar*	B	26								

Easter Holiday			6 weeks (6 lessons) (29 Days)								
15-Apr	A	27	25-26. Microscopy required practical (2 lessons) 27. Stem cells (1 lesson) 28. Mitosis (1 lesson) 29-30. Revision (2 lessons) <table><tr><th>Prior</th><th>Current</th><th>Next</th></tr><tr><td>Year 7- Cells, tissue, organs</td><td>Understand organisation within organisms</td><td>Year 12- cells & microscopy</td></tr></table>	Prior	Current	Next	Year 7- Cells, tissue, organs	Understand organisation within organisms	Year 12- cells & microscopy		
Prior	Current	Next									
Year 7- Cells, tissue, organs	Understand organisation within organisms	Year 12- cells & microscopy									
22-Apr	B	28									
29-Apr	A	29									
6-May*	B	30									
13-May	A	31									
20-May	B	32	GW: Identify sources of stem cells, Describe why the body needs new cells BI: describe what a stem cell is, Describe stages in the cell cycle EW: Evaluate the use of stem cells, Explain the importance of studying the cell cycle								
Half-Term			7 weeks (7 lessons) (35 Days)								
3-Jun	A	ST2	31. Complete exam (1 lesson) 32. Complete exam feedback (1 lesson) 33. Organisation, Cells. Tissues, Organs (1 lesson) 34. Aerobic respiration (1 lesson) 35. Anaerobic Respiration (1 lesson) 36. Respiration and Exercise (1 lesson) 37. Metabolism (1 lesson)								
10-Jun	B	ST2									
17-Jun	A	35									
24-Jun	B	36									
1-Jul	A	37									
8-Jul	B	38									
15-Jul	A	39	GW: You can state what tissues, organs and systems are, Identify the types of respiration, Describe how anaerobic respiration is different to aerobic, identify which organs in the body respond to exercise, define metabolism BI: You can give examples of tissues and organs, Describe what respiration is needed for, Describe the products of anaerobic respiration in plants and animals, mention some long and short term effects that occur within the body in response to exercise, explain the role of metabolism EW: You can identify organs within organ systems and describe the jobs of the organ system, Compare the types of respiration, Evaluate the use of anaerobic respiration in industrial processes, analyse and compare graphs of changes in the body during exercise. give examples of metabolic reactions								

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			<table><tr><th>Prior</th><th>Current</th><th>Next</th></tr><tr><td>Year 8- Respiration topic</td><td>Understand Respiration</td><td>Year 12 – Biological molecules and mass transport</td></tr></table>	Prior	Current	Next	Year 8- Respiration topic	Understand Respiration	Year 12 – Biological molecules and mass transport	
Prior	Current	Next								
Year 8- Respiration topic	Understand Respiration	Year 12 – Biological molecules and mass transport								
(Total: 190 Days)										

* Bank Holidays

Prompt Questions

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Please revisit the prompts from last year:

- What are the Key concepts for this unit?
- How will it link to wider disciplinary knowledge/cultural capital: history, culture, authentic artefacts, music, art, literature?
- How does it build on prior knowledge and link to other units, concepts, years, GCSE?
- What is it intended students will have learned?
 - For each Unit? By the end of the Year?
 - GW: ; BI: ; EW
- Is it worth summarising in a knowledge organiser?
- **Assessment: how do you know they have learned the foundational concepts, curriculum and wider disciplinary knowledge? Does assessment look like GCSE light? Should it?**
- Skills used/learned
- Tier 2/3 vocabulary ((Etymology e.g. of Greek/Latin)

Overview of Year 9	
Based on your Flight Path (E.g. Targets 1L – 4L)	By the end of Year 9, students will have learned
GW:	• State the four types of pathogens and the diseases they cause • Describe ways to stay healthy and recall what is meant by non-communicable diseases. • Recall the main reasons for medical testing and drug trials. • Recall the main effects of drugs on the body • Recall the characteristics of living things, identify different specialised cells • State how to use a light microscope. • State what we mean by Aerobic and anaerobic respiration
BI:	• Describe ways to reduce/ prevent the effects of pathogens. • Describe the effects of specific diseases on the health of individuals. • Describe the stages of vaccination • Describe the role of the White blood cells in preventing disease.

	• Use equations to calculate magnification, image and actual size of a cell. • Pupils can describe the parts that are found in an animal and plant cell and list the function of different types of cells & their role • Describe the reactants and products of aerobic and anaerobic respiration. • Describe fermentation and the conditions needed for it to occur.
EW:	• Evaluate data in relation to non-communicable diseases. • Evaluate the role of medical testing in this prevention. • Explain how most non communicable disease can be linked to lifestyle and evaluate data relating to this. • Compare light and electron microscopes and their uses limitations. • Pupils can explain the roles of each cell organelles, Relate structure of a cell to its function • Evaluate the effects of respiration on exercise and recovery.