

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 10 Overview 2023-24 – Biology

Date	Wk	Week	Units Studied & Learning Outcomes	Key Concepts & Assessment						
8 weeks (12 Lessons) (38 Days)										
Tues 5-Sep	A	1	Lesson overview: Organs and Organ systems in Humans (10 lessons) Lesson sequence: 1-2. The Heart and its structure (2 lessons) 3. Blood vessels associated with the heart (1 lesson) 4. Composition of the blood (1 lesson) 5-6. Problems associated with the heart (2 lessons) 7-8. The Digestive system (2 lessons) 9-10. The respiratory system (2 lessons) 10.The function of the brain (1 lesson) 11..The function of the eye (1 lesson) <table border="1"><thead><tr><th>Prior</th><th>Current</th><th>Next</th></tr></thead><tbody><tr><td>Year 7- Cells, tissues and organs</td><td>Understand specific organ systems in Humans</td><td>Year 12 – Digestion and absorption</td></tr></tbody></table> - GW: Identify the main organs in each system and how they are adapted to function - BI: Cross link these organs to establish a picture of the whole organism. - EW: Evaluate the issues ad treatment surrounding problems with these organs	Prior	Current	Next	Year 7- Cells, tissues and organs	Understand specific organ systems in Humans	Year 12 – Digestion and absorption	
Prior	Current	Next								
Year 7- Cells, tissues and organs	Understand specific organ systems in Humans	Year 12 – Digestion and absorption								
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 (10-11 lessons) (34 Days)										
6-Nov	A	9	Lesson Overview: Nervous system (11 lessons) Lesson Sequence: 1. The structure of the Nervous system (1 lesson) 2.[Testing sensitivity of pressure receptors in the skin] (optional: 1 lesson) 3-4. Reflex arcs (2 lessons) 5-6.The Nervous system Ruler drop test (2 lessons) 7,8 & 9 – Revision (3 lessons) 10-11. Feedback and Exam (2 lessons)							
13-Nov	B	10								
20-Nov	A	11								
27-Nov	B	12								
4-Dec	A	ST1								
11-Dec	B	ST1								
18-Dec	A	15	<table border="1"><thead><tr><th>Prior (Y8)</th><th>Now (Y9)</th><th>Next (Y12)</th></tr></thead><tbody><tr><td></td><td></td><td></td></tr></tbody></table>	Prior (Y8)	Now (Y9)	Next (Y12)				
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			<table><tr><td>Year 7- Organ systems</td><td>Understand how the Nervous system responds to changes</td><td>Year 12 – N/A</td></tr></table> • GW: Identify the main parts of the Nervous system and the role that they play in coordinating a response. • BI: Describe the difference between voluntary and Involuntary actions. • EW: Explain how to measure reaction time and predict the effects of external factors on reaction time.	Year 7- Organ systems	Understand how the Nervous system responds to changes	Year 12 – N/A										
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Christmas Holiday																
6 weeks (9 lessons) (30 Days)																
8-Jan	B	16	Lesson overview Hormones (9-10 lessons) Lesson sequence: 1.What is a Hormone and where is it secreted from (1 Lesson) 2.The events of the Menstrual cycle (1 lesson) 3.Hormones involved in the menstrual cycle (1 lesson) 4-5. Artificial control- Hormones and Contraception (1-2 lessons) 6. How do different contraceptive work (1 lesson) 7. Homeostasis (1 lesson) 8 & 9. Glucose levels and Diabetes (2 lessons) 10. Thyroxine and adrenaline (1 lesson) 11. The Kidneys and Osmoregulation (2-3 lessons) 12. Monoclonal Antibodies (1 lesson)													
15-Jan	A	17														
22-Jan	B	18														
29-Jan	A	19														
5-Feb	B	20														
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12-Feb	A	21	• GW: Recall the names of Hormones and the glands that they are secreted from. Recall													

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			the definition of Homeostasis and list some examples • BI: Describe how Hormones control fertility/ conception and the Menstrual cycle. Describe how the body regulates its blood glucose levels and what happens in the case of Diabetes • EW: Discuss the ethics surrounding IVF. Apply knowledge of Negative feedback to specific examples							
Half-Term										
5 weeks (7-8 lessons) (24 Days)										
26-Feb	B	22	Lesson overview: Digestive system (7 lessons) Lesson sequences: 1 & 2. Food test required practical (2 lessons) 3. Enzymes Structure (1 lesson) 4. Enzymes and digestion(1 lesson) 5. Enzymes and pH and temperature (1 lesson) 6-7. Amylase required practical (1-2 lessons) <table><tr><th>Prior</th><th>Current</th><th>Next</th></tr><tr><td>Year 7- Digestio n topic</td><td>Understand Enzymes and their roles in digestion</td><td>Year 12 – Digestion and Absorption</td></tr></table> • GW: Recall the definition of an Enzyme and describe what factors affects enzyme action • BI: Describe the main Enzymes involved in digestion • EW: Evaluate the effect of pH on Amylase. • Recall of knowledge, application of knowledge, identify patterns from observations, and interpret data.	Prior	Current	Next	Year 7- Digestio n topic	Understand Enzymes and their roles in digestion	Year 12 – Digestion and Absorption	
Prior	Current	Next								
Year 7- Digestio n topic	Understand Enzymes and their roles in digestion	Year 12 – Digestion and Absorption								
4-Mar	A	23								
11-Mar	B	24								
18-Mar	A	25								
25-Mar*										
	B	26								
Easter Holiday										
6 weeks (9 lessons) (29 Days)										
15-Apr	A	27	Lesson overview: Photosynthesis (7 lessons) Lesson sequence: 1.Photosynthesis (1 lesson) 2.Testing a leaf for Starch (1 lesson) 3.Limiting factors (1 lesson) 4. Uses of glucose (1 lesson) 5. Optimising food production (1 lesson) 6 & 7. Photosynthesis required practical (2 lessons) 8. Plant diseases (1 lesson)							
22-Apr	B	28								
29-Apr	A	29								
6-May*	B	30								
13-May	A	31								
20-May	B	ST2								

			9. Plant defence mechanisms (1 lesson) 10-12. Tropisms and use of plant hormones (3 lessons) 13-14. Revision (2 lessons) <table><thead><tr><th>Prior</th><th>Current</th><th>Next</th></tr></thead><tbody><tr><td>Year 8- Photosynthesis</td><td>Understand Photosynthesis Understand transpiration and translocation</td><td>Year 12 – Organism exchange and the Environment Year 12 – Cohesion in the xylem</td></tr></tbody></table> - GW: Describe the reactants and products of photosynthesis and the use of these substances. Describe the processes of transpiration and translocation and identify the structures involved. - BI: Describe which factors affect the rate of photosynthesis and the factors that affect the rate of transpiration. - EW: Explain how to test for the rate of photosynthesis using different independent variables, and how to use a potometer to measure transpiration rate.	Prior	Current	Next	Year 8- Photosynthesis	Understand Photosynthesis Understand transpiration and translocation	Year 12 – Organism exchange and the Environment Year 12 – Cohesion in the xylem				
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Half-Term					7 weeks (10-11 lessons) (35 Days)								
3-Jun	A	ST2	Lesson Overview: Transpiration (3 lessons) Transport (4 lessons) Lesson sequences: 1. Revision (1 lesson) 2. Exam feedback (1 lesson) 3. Transpiration and factors affecting transpiration (1 lesson) 4. Using a potometer (1 lesson) 5. Translocation and the phloem (1 lesson) 6. Diffusion (1 lesson) 7. Osmosis (1 lesson) 8. Active transport (1 lesson) 9-10. Osmosis required practical (2 lessons) <table><thead><tr><th>Prior</th><th>Current</th><th>Next</th></tr></thead><tbody><tr><td>Year 7- Cells topic</td><td>Understand movement of substances in plants and animals</td><td>Year 12 – Transport across cell membranes</td></tr></tbody></table>	Prior	Current	Next	Year 7- Cells topic	Understand movement of substances in plants and animals	Year 12 – Transport across cell membranes				
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10-Jun	B	ST2											
17-Jun	A	35											
24-Jun	B	36											
1-Jul	A	37											
8-Jul	B	38											
15-Jul													
	A	39											

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			• GW: Describe the processes by which substances move across membranes • BI: Describe the similarities and differences in each process • EW: Explain how to interpret data relating to the required practical	
(Total: 190 Days)				

* Bank Holidays