

Year 9 Higher Trilogy GCSE 2023/2024 Calendar

Wk	Date	Topic
2B	11/09	Introduction to GCSE and Principles of Organisation (Tissues, organs and systems)
		Eukaryotic Cells and how to learn techniques
3A	18/09	Prokaryotic Cells and comparing questions
4B	25/09	Magnification – Parts of a microscope, Making Slides and how to focus, drawing and including magnification
		Magnification – Units of Measurement
5A	02/10	Magnification Calculations (No Standard Form (cover with stomata in Year 10, no scale bars)
6B	09/10	Light Microscope vs Electron Microscope and how to learn techniques
		Specialised Cells
7A	16/10	Assessment 1 – Cell1
8B	30/10	Cells Assessment DIRTime
		Biological Molecules – What are living things made from? – Biochemical Tests Required Practical 3
9A	06/11	Biological Molecules – What are living things made from
10B	13/11	Biological Molecules – What are living things made from
		Chemical Reactions in Cells – Metabolism
11A	20/11	Chemical Reactions in Cells – Metabolism
12B	27/11	Enzymes Theory – What does an enzyme do and what is an enzyme made from?
		Enzymes Theory – Structure, specificity, lock and key theory
13A	04/12	Enzymes Theory – Effect of temperature, pH + denaturation, Effect of substrate conc
14B	11/12	Review and revision
		Assessment 2 - Biological Molecules and Enzymes
15A	03/01	Assessment 2 - Biological Molecules and Enzymes in DIRTime
16B	08/01	Enzyme Practical Design – Variables and ways to measure rate of reactions
17A	16/01	Enzymes Practical Design– Validity Rate calculations and Graph Work
18B	22/01	Enzymes Practical – Rate Calculations and Graph Work
		Respiration – Aerobic and uses of energy
19A	29/01	Respiration – Anaerobic and comparison
20B	05/02	Diffusion and examples of diffusion
		Factors that Affect the rate of Diffusion
21A	19/02	Surface Area to Vol Ratio –What is SA, What is vol, concept of ratio + how to calculate
22B	26/02	Surface Area to Vol Ratio – Relationship with size or organism and temperature
		Surface Area to Vol Ratio – Size and rate of uptake of gases and transport, how to write about SA to vol ratio
23A	04/03	Gas Exchange Surfaces – general features and think to rate of diffusion
24B	11/03	Gas Exchange Surfaces – fish and effective writing
		Gas Exchange – application to other organisms, human lungs and gas exchange
25A	18/03	Lungs
26B	08/03	Respiration, Diffusion and Gas Exchange Review Lesson – exam questions
		Blood / specialised cells
27A	15/04	Double Circulatory System
28B	22/04	Heart

		Heart
29A	29/05	Mock Exam
30B	06/05	Mock Exam DIRT
		Pacemakers
31A	13/05	Blood Vessels
32B	20/05	Blood Vessels
		Rate Calculations of Blood Flow – practical (HSW)
33A	03/06	Rate Calculations of Blood Flow – follow up (HSW)
34B	10/06	Response to Exercise – Increased muscle contraction, Changes in rates of respiration and the problem with anaerobic
		Response to Exercise – Changes in heart rate and breathing rate, extended writing
35A	17/06	Response to Exercise – Data Work and application
36B	24/06	Response to Exercise – Oxygen Debt and data work
		Response to Exercise – Glycogen and data work
37A	01/07	Investigating changes in HR and BR – writing plans and random sampling
38B	08/07	
39A	15/07	Challenge and Celebration Week

	Tracking Window
	Parents' Evening

If we are able to finish with spare lessons??? Heart valve work?? Ecology – predation and biotic factors??? Stomata and microscopes?? Adaptations??