

Curriculum Map 2020-21: AS Level Biology

Year Overview

	NBM/FCY (x4)	DMR (x2)
Autumn 1	Unit 1 Biological molecules	Unit 1 – Biological molecules
Autumn 2	Unit 2 – Cells	Unit 4 – Inheritance & variation
Spring 1	Unit 2 – Cells	Unit 4: Genetic diversity
Spring 2	Unit 3: Mass transport	Unit 4: Biodiversity
Summer 1	Unit 3: Mass transport	Maths in Biology
Summer 2	Revision	Revision

			Lesson Focus:NBM/FCY (4x)	Lesson Focus: DMR (2x)	Homework	Assessment
Autumn 1	30/08/2021	Week 1	Introduction Biological molecules & Carbohydrates	Nucleic acids		
	06/09/2021	Week 2	Carbohydrates & Starch, Glycogen, cellulose	Energy & ATP	Exam Questions	
	13/09/2021	Week 3	Lipids	Water & its functions	Exam Questions	Baseline test
	20/09/2021	Week 4	Proteins	Ions	Exam Questions	
	27/09/2021	Week 5	Food tests practical/ demo/ video	Revision	Exam Questions	
	04/10/2021	Week 6	Enzymes	Test	Exam Questions	
	11/10/2021	Week 7	RP1: Enzymes	Genes & the triplet code	Exam Questions	CPAC - RP1: Enzymes RP2: Mitosis
	18/10/2021	Week 8	Test feedback	DNA, RNA & chromosomes	Exam Questions	Unit 1 Test
Autumn 2	01/11/2021	Week 9	Methods of studying cells & Microscopes	Mutations	Exam Questions	
	08/11/2021	Week 10	Microscopy calculations	Protein Synthesis – transcription & splicing	Exam Questions	
	15/11/2021	Week 11	Eukaryotic cell structure	Protein synthesis - translation	Exam Questions	
	22/11/2021	Week 12	Cell specialisation and organisation	Genes & the triplet code	Exam Questions	
	29/11/2021	Week 13	Prokaryotic cells & viruses	Meiosis	Exam Questions	
	06/12/2021	Week 14	Mitosis and the cell cycle	Genetic diversity & adaptation	Exam Questions	
	13/12/2021	Week 15	RP2: Mitosis	types of selection	Exam Questions	CPAC - RP2: Mitosis
Spring 1	03/01/2022	Week 16	Structure of the cell membrane	Species & taxonomy	Exam Questions	
	10/01/2022	Week 17	Required practical 3: permeability of cell membrane	Species diversity & human activity & investigating diversity	Exam Questions	CPAC - Required practical 3: permeability of cell membrane
	17/01/2022	Week 18	Diffusion, osmosis, active transport	RP6: Disinfectants and microbial growth	Exam Questions	CPAC RP6: Disinfectants and microbial growth
	24/01/2022	Week 19	Required practical 4: osmosis in potatoes.	Unit 4 test prep	Exam Questions	CPAC - Required practical 4: osmosis in potatoes.
	31/01/2022	Week 20	Co-transport & the absorption of glucose in the ileum.	Test & feedback	Exam Questions	Unit 4 test
	07/02/2022	Week 21	Defence mechanisms & phagocytosis	Haemoglobin & dissociation curves	Exam Questions	CPAC RPS: heart dissection

Spring 2	14/02/2022	Week 22	T lymphocytes and cell mediated immunity & B lymphocytes and humoral immunity	Structure of heart & cardiac cycle	Exam Questions	
	28/02/2022	Week 23	Antibodies, vaccination & HIV	RP 5 heart dissection	Exam Questions	CPAC RP5: heart dissection
	07/03/2022	Week 24	Unit 2 test	Blood vessels & tissue fluid formation	Exam Questions	
	14/03/2022	Week 25	SA/V Ratio & single celled organisms Gas exchange in insects & Fish	Mass transport in plants	Exam Questions	
	21/03/2022	Week 26	Gas exchange in leaves & Limiting water loss	Revision	Exam Questions	
	28/03/2022	Week 27	Human gas exchange & Mechanism of breathing, Exchange of gases in the lungs	Revision	Exam Questions	
Summer 1	04/04/2022	Week 28	Lung disease/data and disease	Maths in Biology	Exam Questions	
	25/04/2022	Week 29	RP5: Lung dissection	Maths in Biology	Exam Questions	CPAC RP5: Lung dissection]
	02/05/2022	Week 30	Exchange of gases in the lungs	Maths in Biology	Exam Questions	
	09/05/2022	Week 31	Lung disease/data and disease	Maths in Biology	Exam Questions	
	16/05/2022	Week 32	Unit 3 test & feedback	Maths in Biology	Exam Questions	Unit 3 test
	23/05/2022	Week 33	Field work prep	Maths in Biology	Exam Questions	Maths in Bio test
Summer 2	06/06/2022	Week 34	RP12: Fieldwork	RP12: Fieldwork	Exam Questions	CPAC Fieldwork
	13/06/2022	Week 35	RP12: Fieldwork	RP12: Fieldwork	Exam Questions	CPAC Fieldwork
	20/06/2022	Week 36	RP12: Fieldwork	RP12: Fieldwork	Exam Questions	CPAC Fieldwork
	27/06/2022	Week 37	RP12: Fieldwork	RP12: Fieldwork	Exam Questions	CPAC Fieldwork
	04/07/2022	Week 38				
	11/07/2022	Week 39				
	18/07/2022	Week 40				