

Curriculum Map 2021-2022: Year 13 Biology

Year Overview

	Teacher 1 (X4 lessons per week)	Teacher 2 (X2 lessons per week)
Autumn 1	Unit 5A – Photosynthesis and Respiration	Unit 5B – Energy Transfer and nutrient cycles Unit 6A – Stimuli and Responses
Autumn 2	Unit 7A Genetics Unit 7B Populations and Evolution	Unit 6B – Nervous coordination
Spring 1	Unit 7C Populations in ecosystems Required practical catch up	Unit 6C – Homeostasis (Homeostasis basics and Glucose regulation)
Spring 2	Required practical catch up Unit 8A Mutations and Gene expression	Unit 6C – Homeostasis (kidneys) Maths in Biology
Summer 1	Unit 8B Genome projects and Gene Technology Revision and Exam Preparation	Revision and Exam Preparation
Summer 2	Revision and Exam Preparation	Revision and Exam Preparation

			Teacher 1 (X4 lessons per week)	Teacher 2 (X2 lessons per week)	Homework	Assessment
Autumn 1	30/08/2021	Week 1				
	06/09/2021	Week 2				
	13/09/2021	Week 3	Unit 5A: Overview of photosynthesis RP7: Plant pigment chromatography	Unit 5B: Food chains & energy transfer	Exam questions / Revision and reading	CPAC - RP7: Plant pigment chromatography
	20/09/2021	Week 4	Unit 5A: The light dependent & independent reactions	Unit 5B: Energy transfer and productivity	Exam questions / Revision and reading	
	27/09/2021	Week 5	Unit 5A: RP8: Dehydrogenase in chloroplasts & photosynthesis review	Unit 5B: Nutrient cycles	Exam questions / Revision and reading	CPAC - RP8: Dehydrogenase in chloroplasts
	04/10/2021	Week 6	Unit 5A: Glycolysis, link reaction & Krebs cycle	Unit 5B: Use of artificial and natural fertilisers	Exam questions / Revision and reading	
	11/10/2021	Week 7	Unit 5A: Oxidative phosphorylation & anaerobic respiration	Unit 5B: Environmental issues concerning the use of nitrogen containing fertilisers	Exam questions / Revision and reading	
	18/10/2021	Week 8	Unit 5A & 5B: Test Unit 5A & 5B: Feedback and DIRT	Unit 5B: Energy & ecosystems review	Exam questions / Revision and reading	Unit 5 Test: Photosynthesis, Respiration and Energy
Autumn 2	01/11/2021	Week 9	Unit 5A: RP9: Respiration of bacterial cultures & respiration review	Unit 6A: A reflex arc & Receptors	Exam questions / Revision and reading	CPAC - RP9: Respiration of bacterial cultures
	08/11/2021	Week 10	MOCK EXAM PERIOD	MOCK EXAM PERIOD		
	15/11/2021	Week 11	MOCK EXAM PERIOD	MOCK EXAM PERIOD		
	22/11/2021	Week 12	MOCK EXAM PERIOD	MOCK EXAM PERIOD		
	29/11/2021	Week 13	Unit 7A Studying inheritance & Monohybrid inheritance Unit 7A Probability and genetic crosses, Dihybrid inheritance	Unit 6A: Survival and response	Exam questions / Revision and reading	
	06/12/2021	Week 14	Unit 7A Co-dominance, multiple alleles & sex linkage Unit 7A Autosomal linkage & Epistasis, & Chi Squared test	Unit 6A: RP10: Choice chamber	Exam questions / Revision and reading	CPAC - RP10: Choice chamber
	13/12/2021	Week 15	Unit 7B The Hardy-Weinberg Principle Unit 7B: Population genetics Unit 7B: Variation in phenotype	Unit 6A: Control of the heart rate	Exam questions / Revision and reading	
Spring 1	03/01/2022	Week 16	Unit 7B: Natural selection Unit 7B: Effects of different forms of selection on evolution	Unit 6A: Plant growth factors	Exam questions / Revision and reading	
	10/01/2022	Week 17	Unit 7B: Isolation & speciation Unit 7C: Populations in ecosystems & Variation in population size	Unit 6B: Neurones & nervous system & the nerve impulse	Exam questions / Revision and reading	
	17/01/2022	Week 18	Unit 7C: Competition & predation Unit 7C: Investigating populations	Unit 6B: Action potential & speed of an impulse	Exam questions / Revision and reading	
	24/01/2022	Week 19	Unit 7C: Succession Unit 7C: Conservation of habitats	Unit 6B: Synapse structure ,function & transmission	Exam questions / Revision and reading	

	31/01/2022	Week 20	Unit 7A, 7B and 7C Test Unit 7A, 7B and 7C Feedback and DIRT	Unit 6B: Nervous co-ordination and muscle contraction	Exam questions / Revision and reading	Unit 7 Test: Genetics and Populations
	07/02/2022	Week 21	Required practical catch up	Unit 6C: Principles of homeostasis, feedback mechanisms	Exam questions / Revision and reading	Required practical catch up
	14/02/2022	Week 22	Required practical catch up	Unit 6C Blood glucose regulation & Diabetes	Exam questions / Revision and reading	Required practical catch up
Spring 2	28/02/2022	Week 23	Required practical catch up	Unit 6C RP11: Colorimetry: glucose in urine	Exam questions / Revision and reading	Required practical catch up CPAC - RP11: Colorimetry: glucose in urine
	07/03/2022	Week 24	Required practical catch up	Unit 6C Structure of the kidneys & control of water potential, osmoregulation	Exam questions / Revision and reading	Required practical catch up
	14/03/2022	Week 25	Required practical catch up	Unit 6C Structure of the kidneys & control of water potential, osmoregulation	Exam questions / Revision and reading	Required practical catch up
	21/03/2022	Week 26	Unit 8A and 8B: gene mutations, stem cells & totipotency	Unit 6A, 6B and 6C Test Unit 6A, 6B and 6C Feedback and DIRT	Exam questions / Revision and reading	Unit 6 Test: Inheritance & populations
	28/03/2022	Week 27	Unit 8A and 8B : Regulation of transcription & translation, Epigenetic control of gene expression	Practising Maths in Biology	Exam questions / Revision and reading	
	04/04/2022	Week 28	Unit 8A and 8B Gene expression, cancer & genome projects	Practising Maths in Biology	Exam questions / Revision and reading	
Summer 1	25/04/2022	Week 29	Unit 8A and 8B Producing DNA fragments, in-vivo & in-vitro cloning	Practising Maths in Biology	Exam questions / Revision and reading	
	02/05/2022	Week 30	Unit 8A and 8B Location OF genes, genetic counselling, screening & fingerprinting	Unit 7C: RP12: Distribution of organisms	Exam questions / Revision and reading	CPAC - RP12: Distribution of organisms
	09/05/2022	Week 31	Unit 8A and 8B: Test Unit 8A and 8B: Feedback and DIRT	Revision and Review	Exam questions / Revision and reading	Unit 8 Test: Genes and Gene Technology
	16/05/2022	Week 32	Revision and Review	Revision and Review	Exam questions / Revision and reading	
	23/05/2022	Week 33	Revision and Review	Revision and Review	Exam questions / Revision and reading	
Summer 2	06/06/2022	Week 34	Revision and Review	Revision and Review	Exam questions / Revision and reading	
	13/06/2022	Week 35	Revision and Review	Revision and Review	Exam questions / Revision and reading	
	20/06/2022	Week 36	Revision and Review	Revision and Review	Exam questions / Revision and reading	
	27/06/2022	Week 37				
	04/07/2022	Week 38				
	11/07/2022	Week 39				
	18/07/2022	Week 40				