

Date w/c	Y12 Short – Sean Monday 125 & Wednesday 122/124	Y12 Long Laura Tuesday 124/122, Mon & Thurs 125	Y13 short – Laura Mon 131, Thurs 136/133	Y13 Long - Sean Mon & Wed 131, Fri 133/136	RS work set
04/09/2023 Inset 1 Mon	Induction		Monday – INSET Follow up of essay writing. ATP recap.	Monday - INSET Re-cap DNA, genes, chromosomes + meiosis	
11/09/2023	Baseline AP	Course intro, files, revision, lab safety, tables and graphs	Glycolysis,	AP	LB Biomolecules SH Cells
18/09/2023 Y12 AP data Fri	Organs, Units and standard form, specialised cells.	Scattergrams, correlation, line of best fit, histograms, bar charts, hwk prac terminology	Mitochondria Link reaction, Krebs	Inheritance, monohybrid, codominant Multiple alleles, sex linkage	LB biomolecules SH Cells
25/09/2023	Microscopy	Monomers, polymers, mono and disaccharides, Benedict's qualitative test	ETC and evidence of chemiosmosis	Dihybrid.	LB Biomolecules SH Cells
02/10/2023 Y13 AP data Fri	Wet mounts and biological drawings. Measuring by counting cells.	Non-reducing sugars and reducing sugars tests + starch test - practical	Anaerobic respiration	Epistasis	LB Biomolecules SH Cells
09/10/2023 Inset 2 Tues Progress day 1 Thurs Parents Eve Y12 tutors	Eukaryotic cells and organelles	Inset Tues Progress day Thurs	Progress day Thurs	Hardy Weinberg	LB biomolecules SH Cells
16/10/2023	Prokaryotic cells. Binary fission. Eukaryotic vs Prokaryotic.	starch, glycogen, cellulose, RP11 intro, logarithms	Alternative respiratory substrates	Autosomal linkage and chi-squared	LB Biomolecules SH Cells
23/10/2023	Half Term	Half Term	Half Term	Half Term	
30/10/2023 Parents Eve Y13 Tues	Cell fractionation and centrifugation. Standard deviation	RP11 Quantitative benedict's + calibration curve; Digest Carbs	RP9 Factors affecting respiration + methylene blue	Selection and speciation	LB Biomolecules SH Cells

06/11/2023 Open Evening Wed	Cell transport 1	Water Triglycerides	RP9 T-test. Respirometers and RQs	Populations in ecosystems and sampling	LB Biomolecules SH Cells
13/11/2023 Progress day 2 Tues	Cell transport 2	<b>Progress day Tues</b> Phospholipids, Cell Surface Membrane. Emulsion test; Digest lipids	Photosynthesis and chlorophyll	<b>RP12 Effect of environmental factors on species distribution</b>	SH Cells LB mass transport
20/11/2023 Inset 3 Fri	<b>RP4 – Membrane permeability + beetroot</b>	Cell Surface Membrane (cont.) Proteins and qualitative biuret test (practical)	<b>RP7 Chromatography + chlorophyll</b>	<b>Inset Fri</b>	SH Cells LB mass transport
27/11/2023	Uncertainty and RP3 intro	Enzymes 1, temperature Enzymes 2 pH, enzyme and substrate concentrations	Light Dependent Reactions	RP12 analysis and Spearman's Rank	SH Cells LB mass transport
04/12/2023	<b>RP3 – WP + osmosis in potato</b>	Enzymes 3: inhibitors, Rates, gradients	<b>Y13 Mocks</b>		
11/12/2023	Immunity non- specific	<b>AP</b> RP1 prep	Light Independent Reactions	Abiotic and biotic factors Succession	LB mass transport SH DNA, genes and chromosomes
18/12/2023 Y13 AP data Fri	Immunity specific	<b>RP1 Factors affecting enzyme- controlled reactions + catalase</b>	Limiting factors	Energy and ecosystems and productivity	LB mass transport SH DNA, genes and chromosomes
25/12/2023	Christmas holiday	Christmas holiday	Christmas holiday	Christmas holiday	Christmas holiday
01/01/2024	Christmas holiday	Christmas holiday	Christmas holiday	Christmas holiday	Christmas holiday
08/01/2024 Y12 AP data Thurs	Vaccinations and antibody structure	RP1 write-up; other enzyme pracs; demo liver+catalase	Limiting factors cont. & photosynthesis investigations	Nutrient cycles and eutrophication	LB mass transport SH DNA, genes and chromosomes
15/01/2024	Monoclonal antibodies and ELISA	Digestion and absorption	<b>RP8 Dehydrogenase + chloroplasts</b>	Cycles essay and catch up	LB mass transport SH DNA, genes and chromosomes

22/01/2024	Viruses and HIV	Digestion cont.	Nervous vs hormonal. Nerves intro.	Survival and response, plant growth factors	LB mass transport SH DNA, genes and chromosomes
29/01/2024	DNA and RNA structure	SA:V; insect gas exchange.	Action potentials	RP10 Taxes and Kinesis – Choice chamber	LB mass transport SH DNA, genes and chromosomes
05/02/2024 Inset 4 Thurs Y13 data Fri	Cell cycle and DNA replication	<b>Inset Thurs</b>	<b>Inset Thurs</b>	Mutation, stem cells, tumours	LB photosynthesis (3) SH energy & ecosystems
12/02/2024	Half Term	Half Term	Half Term	Half Term	Half Term
19/02/2024	Mitosis and cancer	Fish gas exchange + RP5 Gill dissection.	Synapses	Transcriptional factors. Epigenetics. Tumour suppressor and oncogenes. RNAi	LB respiration SH nutrient cycles
26/02/2024	RP2 root tip squash + mitosis	Cont.	Y13 Mock exam week		
04/03/2024 Open Eve 2 - Tues	Meiosis	Human gas exchange + RP5 Lung dissection.	Mocks Mon – Wed Pacinian corpuscle.	Mocks Mon - Wed	LB respiration SH survival and response
11/03/2024 Y13 Mock 2 data entry Fri	AP	RP5 write-up; ventilation, lung histology, exam questions	Rods and cones	Gene tech inc siRNA	LB receptors & control of HR SH inheritance 1
18/03/2024	Genetic code transcription	epidemiology + risk factors lung disease	Gross skeletal muscle and myofibrils.	Gene technologies	LB nervous impulses SH inheritance 2
25/03/2024 Y12 AP4 data Thurs Y13 parents evening Wed	translation & mutation	Cardio 1 Structure of heart and circulatory system	Sliding filament theory. Fast and slow twitch.	BH – Friday	LB synaptic transmission SH evolution and speciation
01/04/2024	Easter holiday	Easter holiday	Easter holiday	Easter holiday	Easter holiday
08/04/2024	Easter holiday	Easter holiday	Easter holiday	Easter holiday	Easter holiday

15/04/2024 Progress day 3 Thur Y12 parents eve	Diversity and adaptation. Antibiotic resistance	Progress day Thurs	Progress day Thurs	Gene technologies	LB skeletal muscle SH populations in ecosystems
22/04/2024 Y13 risk data entry Thurs	RP6 Aseptic techniques + antibiotic discs	Cardio 2, cardiac cycle, control of heart rate, Heart dissection RP5	Homeostasis intro. positive and negative feedback. Osmoregulation	Gene technologies	LB homeostasis SH populations in ecosystems
29/04/2024	RP6 analysis	Blood vessels and lymph	Kidney and nephron	Gene technologies	LB water potential SH stem cells and regulation of transcription and translation
06/05/2024	BH – Monday Species and taxonomy	BH – Monday Epidemiology CHD	BH – Monday Nephron and ADH	BH - Monday	LB control of blood glucose SH cancer
13/05/2024 Y13 leavers day Fri	Mon- Species and taxonomy Biodiversity in a community and diversity index	Haemoglobin and Oxygen dissociation curves	Blood glucose regulation Second messenger model. Diabetes. ---->	Gene technologies/ Blood glucose regulation Second messenger model. Diabetes	SH recombinant DNA technology and gene probes & genetic fingerprinting
20/05/2024	Mon - Biodiversity in a community and diversity index. Quantitative investigations	Plant gas exchange and xerophytes			
27/05/2024	Half Term	Half Term	Half Term	Half Term	Half Term
03/06/2024	Mon- Quantitative investigations Practicals + skills	Xylem and transpiration			
10/06/2024	Practicals + skills	Photometry and translocation			
17/06/2024 UCAS convention Fri	Revision	Translocation cont and evidence for			
24/06/2024 Y11 Induction Mon					
01/07/2024	Go through Mock	ATP			
08/07/2024	Go through Mock	Essays			

Y12 mock 2 data entry Fri					
15/07/2024	Work experience	Work experience			
22/07/2024	Summer 😊	Summer 😊	Summer 😊	Summer 😊	Summer 😊
12/08/2024					
19/08/2024					