

Year 13 Revision Schedule: Biology

How to use this schedule:

1. Begin by reviewing the assigned topic for the day, recalling all relevant information, including your studies (5 minutes).
2. Refer to your notes or check Google Classroom for any missed details, and supplement your existing notes (5 minutes).
3. Consider utilising flashcards or quizlet.
4. Allocate 20 minutes to either practising exam questions.
5. On the following day, assess your understanding of the previously revised topics to reinforce and rehearse your memory of them.

Key:

Paper 1 topics	Paper 2 topics	<i>Required practical</i>	Exam practise
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	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
w/b 1st January			<i>Required practical 8</i>	Statistics	Evaluation questions	Essay planning	Essay planning
w/b 8th January	Chi squared test	Statistics	Population Genetics	Variation in Phenotype	Required practical 12	Exam practise paper 1	Exam practise paper 1
w/b 15th January	Natural selection	Effects of forms of selection on evolution	Isolation and speciation	Exam practise	Natural selection	Exam practise paper 2	Exam practise paper 2
w/b 22nd January	Recap population in ecosystem	variation	Competition and predation	Investigating populations	Recap population in ecosystem	Essay Practise Paper 3	Essay Practise Paper 3
w/b 29th January	Succession	Conservation of habitats	Exam practise	Formative assessment	Succession	Exam practise paper 3	Exam practise paper 3
w/b 5th February	Gene expression	Gene mutation	Stem cells	Regulation of transcription and translation	Gene expression	Required practical 10	Exam practise paper 1

w/b 12th February	Epigenetic	Cancer	Genome project	Exam practise	Epigenetic	Exam practise paper 2	Exam practise paper 2
w/b 19th February	Recombinant DNA technology	In vivo cloning	PCR	Genetic screening	Hb Saturation curve	Exam practise paper 3	Exam practise paper 3
w/b 26th February	Biochemical tests (food test)	Carbohydrates and monosaccharides	Disaccharides and polysaccharides	Starch, glycogen and cellulose	Lipids	Protein	Exam practise paper 1
w/b 4th March	Proteins synthesis – transcription and splicing Protein synthesis – translation	Required practical 9	Factors affecting enzyme action	Enzyme inhibition	Required practical 1	Genes and the triplet code • DNA and chromosomes	Exam practise paper 2
w/b 11th March	Required practical 10	Structure of nephron	Water potential	Osmoregulation	Studying inheritance	Monohybrid inheritance	Probability and genetic crosses
w/b 18th March	Methods of studying cells	The electron microscope	Microscopic measurements and calculations	Eukaryotic cell structure	Prokaryotic cells and viruses	Required practical 6	Exam practise paper 3
w/b 25th March	Cell specialism and organisation	Mitosis	The cell cycle	Required practical 2	Cell surface membrane	Mutations Meiosis and genetic variation	Exam practise paper 1
w/b 1st April	Diffusion	Osmosis	Active transport	Co-transport and absorption of glucose in the ileum	Required practical 3	Species and taxonomy Diversity within a community	Species diversity and human activity Investigating diversity
w/b 8th April	Required practical 4	Defence mechanisms	Phagocytosis	T-Lymphocytes and cell mediated immunity	B-Lymphocytes and humoral immunity	Antibodies and Vaccination	Exam practise paper 1
w/b 15th April	Human Immunodeficiency virus (HIV)	Gas exchange in single-celled organisms and insects	Gas exchange in fish	Glycolysis Link reaction and Krebs cycle	Oxidative phosphorylation	Anaerobic respiration	Exam practise paper 2

w/b 22nd April	Gas exchange in the leaf of a plant	Limiting water loss	Photosynthesis	Light-dependant reaction and C3	Required practical 7	Exchange of gases in the lungs	Exam practise paper 3
w/b 29th April	Structure of the human gas exchange system	Exchange of gases in the lungs	Enzymes and digestion	Absorption of the products of digestion	Haemoglobin	Transport of oxygen by haemoglobin	Circulatory system of a mammal
w/b 6th May	The structure of the heart	Required practical 5	Genetic diversity and adaptation Types of selection	Food chains and energy transfer Energy transfer and productivity	Nutrient cycles Use of natural and artificial fertilisers	Environmental issues concerning use of nitrogen-containing fertilisers	Exam practise paper 2
w/b 13th May	Structure of RNA and DNA	DNA Replication	Energy and ATP	Water and its Functions	Inorganic ions	Food chains and energy transfer	Essay Practise Paper 3
w/b 20th May	Codominance	Sex linkage	Autosomal linkage	Epistasis	Required practical 11	Essay planning	Exam practise paper 3
w/b 27th May	Survival and response	Plant growth factors	A reflex arc Receptors	Control of heart rate	Passage of an action potential	Structure and function of synapses Transmission across a synapse	Exam practise paper 1
w/b 3rd June							
w/b 10th June							
w/b 17th June							