Year 11

Subject Biology

Term	Week	Focus	Summary	Learning Outcomes
Term 1	1	GCSE Induction and Expectations	Expectations - classroom attitudes and behaviours Expectations - presentation of books Home learning support through guided reading Review of key skills for GCSE	Describe the behaviour policy used in Science Summarise the expectations for my book throughout the year Justify the use of guided reading for my home learning List key vocabulary needed for GCSE
	2	GCSE Induction and Expectations	Graphs, tables & variables Maths skills Exam language	Use your knowledge to identify variables Justify the type of graph for a set of results Interpret the graph you have drawn Calculate a percentage and mean Determine significant figures Analyse results State definitions for each keyword Use information given in questions to evaluate and draw conclusion
	3	Disease	Communicable diseases Immunity Antibiotics	Use your knowledge to describe what causes communicable diseases.
	4	Disease	Required Practical: the effect of disinfectants and antibiotics on uncontaminated cultures of microorganisms. Required Practical: analysis Optional revision/catch up	Apply your knowledge to identify variables. Collect and interpret results from an investigation. Evaluate the results from an investigation
	5	Disease Plants	Disease retrieval practise Disease feedback lesson Photosynthesis	Evaluate knowledge of all content from the disease topic and apply it to different retrieval tasks. Use your knowledge to define photosynthesis. Write a word and balanced symbol equation for photosynthesis. Discuss what the glucose produced in photosynthesis is used for.
	6	Plants	Limiting factors Required Practical: Factors affecting the rate of Photosynthesis Required Practical analysis	Use your knowledge to define and identify limiting factors. Interpret limiting factor graphs. Sketch and explain a limiting factor graph.
	7	Plants	Transport in plants Optional catch up/revision lesson	Use your knowledge to describe how water and carbon dioxide enter a plant. Relate the structure of the xylem and phloem to their function. Discuss the factors that affect the rate of transpiration.
	8	Plants Genetics & inheritance	Plants retrieval practise Plants feedback lesson Genetics- the basics	Evaluate knowledge of all content from the plants topic and apply it to different retrieval tasks. Use your knowledge to distinguish the difference between DNA, genes and chromosomes. Compare genetic and environmental variation. Investigate continuous and discontinuous variation.
	9	Genetics & inheritance	Reproduction Inheritance Genetic disorders	Use your knowledge to distinguish the differences between sexual and asexual reproduction. Apply your knowledge to exam questions. Evaluate sexual and asexual reproduction. Apply your knowledge to define scientific terminology. Use scientific terminology to explain Mendel's results. Interpret and create genetic diagrams. Use your knowledge to distinguish between a communicable disease and a genetic disorder. Interpret data and information relating to polydactyl, cystic fibrosis and sickle cell anemia. Apply your knowledge to an exam question.
	10	Genetics & inheritance	Genetics & inheritance catch up/revision lessons Genetics & inheritance retrieval practise	Evaluate knowledge of all content from the genetics & inheritance topic and apply it to different retrieval tasks.
	11	Genetics & inheritance Genetic manipulation	Genetics & inheritance feedback lesson Cloning Genetic engineering	Use your knowledge to define cloning. Interpret information to summarise cloning techniques used by humans. Evaluate cloning. Apply your knowledge to an exam question. Use your knowledge to describe and define genetic engineering. Evaluate genetic engineering. Relate your knowledge to exam questions.
	12	Genetic manipulation	Evolution Darwin's finches Genetic manipulation revision/catch up lesson	Use your knowledge to define evolution. Interpret images to describe Darwin's theory of Evolution. Compare Lamarck's and Darwin's theories. Predict finch distribution from data Use key terms to explain what happened with Darwin's finches Evaluate a peer's answer
	13	Genetic manipulation	Genetic manipulation revision/catch up lesson Genetic manipulation retrieval practise Genetic manipulation feedback	Evaluate knowledge of all content from the genetic manipulation topic and apply it to different retrieval tasks.
	14	Disease Plants Genetics & inheritance Genetic manipulation	Revision for Assessment	Evaluate knowledge of all content from the disease, plants, genetics & inheritance and genetic manipulation topics and apply it to different retrieval tasks.