



Year 11 Six Week Plan Paper 1 & Paper 2

Subject: SS Biology

	Paper 1 Key areas of focus for independent learning	Paper 1 Key areas of focus for extending your learning	Paper 2 Key areas of focus for independent learning	Paper 2 Key areas of focus for extending your learning .
1	Cell biology Diffusion Osmosis (include required practical) Active transport Exchange surfaces Exchanging substances Types of cells (eukaryotes and prokaryotes) Microscopy and magnification (include required practical) Cell differentiation and specialisation Chromosomes and mitosis Stem cells	Use GCSE Pod to answer questions on the topic of Cell Biology. https://www.bbc.co.uk/bitesize/guides/z84tv4/revision/1 https://www.bbc.co.uk/bitesize/guides/zs8y4qt/revision/1 https://www.bbc.co.uk/bitesize/guides/zc7k2nb/revision/1 Revision guide: H&F: 11-22	Ecology Competition, biotic & abiotic factors Adaptations Food chains Sampling techniques (required practical) The water and carbon cycle Decomposition Impact of environmental change Trophic levels Biomass Food production Sustainability Biotechnology Biodiversity and pollution	Use GCSE Pod to answer questions on the topic of ecology https://www.bbc.co.uk/bitesize/guides/z9pd6c/revision/1 https://www.bbc.co.uk/bitesize/guides/z9nwtv4/revision/1 https://www.bbc.co.uk/bitesize/guides/z7qaw6f/revision/1 https://www.bbc.co.uk/bitesize/guides/z7gw6f/revision/1 https://www.bbc.co.uk/bitesize/guides/z8f4qt/revision/1 https://www.bbc.co.uk/bitesize/guides/zhwk2p/revision/1 Revision guide F&H: 83-94
2	Animal Organisation Respiratory system Cardiovascular system Cardiovascular disease Health and risk factors Cancer Cell organisation in animals Enzymes (including required practical) Food tests (including required practical) Digestive system	Use GCSE Pod to answer questions on the topic of Animal Organisation. https://www.bbc.co.uk/bitesize/guides/zpvt9q/revision/1 https://www.bbc.co.uk/bitesize/guides/zctv9q/revision/1 https://www.bbc.co.uk/bitesize/guides/zanrswx/revision/1 https://www.bbc.co.uk/bitesize/guides/z372ng8/revision/1 Revision guide: F: 24-32 H: 24-38	Cell division and reproduction DNA Advantages of Sexual and asexual reproduction Meiosis DNA Structure Protein synthesis Gene expression Mutations	Use GCSE Pod to answer questions on the topic of Cell division and reproduction https://www.bbc.co.uk/bitesize/guides/z9pkmsg/revision/1 revision guide: F: 66-68 H: 68-70
3	Plant Organisation Cell organisation in plants Transport systems in plants Evaporation and transpiration Factors affecting transpiration	Use GCSE Pod to answer questions on the topic of Plant Organisation. https://www.bbc.co.uk/bitesize/guides/zyk8msg/revision/1 Revision guide: F: 38-41 H: 39-41	Variation and inheritance Inheritance of sex Genetic inheritance Genetic diagrams Inherited disorders Embryo screening Mendel	Use GCSE Pod to answer questions on the topic of variation and inheritance https://www.bbc.co.uk/bitesize/guides/zc8f4qt/revision/1 Revision guide: F: 69-72 H: 71-74
4	Infection and Response Pathogens and disease (viral, bacterial, fungi and protists) Growing Bacteria Preventing Bacterial Growth Preventing infections Human defence responses Monoclonal antibodies Plant Disease Plant defences	Use GCSE Pod to answer questions on the topic of Infection and Response. https://www.bbc.co.uk/bitesize/guides/zx7ng8/revision/1 https://www.bbc.co.uk/bitesize/guides/z3tqaw6f/revision/1 https://www.bbc.co.uk/bitesize/guides/zt8t3k7/revision/1 Revision guide: F: 42-49 H: 43-49	Evolution Theory of evolution Speciation Natural selection Fossils Classification Antibiotic resistant bacteria Selective breeding Genetic engineering Cloning	Use GCSE Pod to answer questions on the topic of evolution https://www.bbc.co.uk/bitesize/guides/zcabdxs/revision/1 https://www.bbc.co.uk/bitesize/guides/zsg69q/revision/1 https://www.bbc.co.uk/bitesize/guides/z9mcqh/revision/1 Revision guide: F: 73-81 H: 75-81
5	Non communicable diseases Non communicable diseases Cancer Coronary heart disease Risk factors Smoking, alcohol and other carcinogens	Use GCSE Pod to answer questions on the topic of Non communicable diseases. https://www.bbc.co.uk/bitesize/guides/z372ng8/revision/1 Revision guide: F: 33-37 H: 34-38	The nervous system Homeostasis The nervous system Reaction times (required practical) The brain The eye Eye defects	Use GCSE Pod to answer questions on the topic of The nervous system https://www.bbc.co.uk/bitesize/guides/zqamfcw/revision/1 https://www.bbc.co.uk/bitesize/guides/zpxy4j/revision/1 Revision guide: F: 57-60 H: 58-61
6	Bioenergetics Photosynthesis Rate of photosynthesis (including required practical) How plants use glucose Limiting factors in photosynthesis Metabolism & the liver Aerobic and anaerobic respiration Response to exercise	Use GCSE Pod to answer questions on the topic of Bioenergetics. https://www.bbc.co.uk/bitesize/guides/zg8nwx/revision/1 https://www.bbc.co.uk/bitesize/guides/zcjy97h/revision/1 Revision guide: F: 50-55 H: 50-56	The endocrine system Hormones Controlling blood glucose The menstrual cycle Controlling fertility IVF Adrenaline and thyroxine Plant hormones & responses Controlling body temperature, water balance and nitrogen balance The kidney, dialysis and kidney failure	Use GCSE Pod to answer questions on the topic of The endocrine system https://www.bbc.co.uk/bitesize/guides/z8t47p3/revision/1 https://www.bbc.co.uk/bitesize/guides/zs9hb82/revision/1 https://www.bbc.co.uk/bitesize/guides/zc6cqhv/revision/1 https://www.bbc.co.uk/bitesize/guides/zxgmcfw/revision/1 Revision guide: F: 61-65 H: 62-65