



**Summer 2**  
Revision; revision techniques, answering past paper questions, revisit required practicals.  
GCSE Biology Paper 1 and Paper 2.

**Summer 1**  
Revision; revision techniques, answering past paper questions, revisit required practicals.



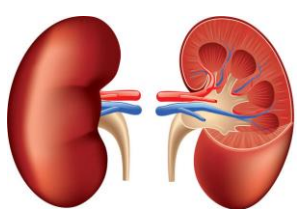
**Spring 1**  
Ecology; How materials are cycled, decomposition, biodiversity, waste management, land use and deforestation, global warming, maintaining biodiversity, factors affecting food security, farming techniques, sustainable fisheries, role of biotechnology.

**Spring 2**  
Revision quizzes, posters, flash cards, pupil led presentations and past paper practice. Peer to peer revision groups



**Autumn 2**  
Inheritance, variation and evolution; variation, selective breeding, evolution, speciation, Theory of Evolution, evidence for evolution – fossils and resistant bacteria, extinction.

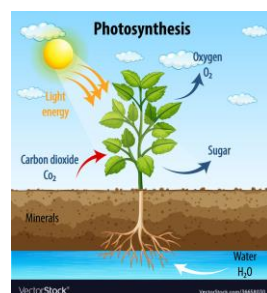
**Autumn 1**  
Inheritance, variation and evolution; sexual and asexual reproduction, meiosis, sex determination, DNA, DNA structure, genetic inheritance, inherited disorders, genetic engineering, cloning.



**Summer 2**  
Homeostasis and response; hormones in human reproduction, contraception, advantages and disadvantages of fertility treatment.  
Homeostasis and response; plant hormones, control and coordination



**Summer 1**  
Homeostasis and response; homeostasis, nervous system, reflex actions, the brain, the eye, control of body temperature, human endocrine system, control of blood glucose concentration, water and nitrogen balance, kidney function, kidney failure.



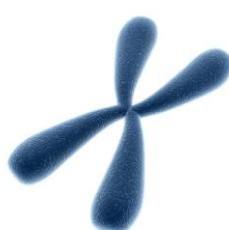
**Spring 2**  
Bioenergetics; aerobic respiration, anaerobic respiration, response to exercise, metabolism.  
Bioenergetics; photosynthesis, rate of photosynthesis, limiting factors, use of glucose.



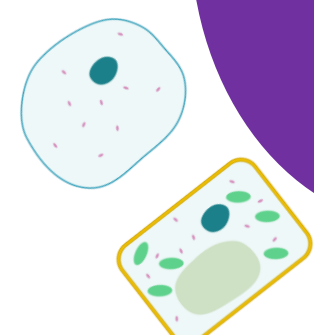
**Autumn 2**  
Infection and response; communicable diseases, culturing microorganisms, viral, bacterial and fungal diseases in humans, protist diseases, human defence systems, vaccination, antibiotics, pain killers, discovery and development of drugs.



**Autumn 1**  
Cell Biology; eukaryotic and prokaryotic cells, cell differentiation, stem cells, microscopy.  
Cell Biology; chromosomes, mitosis and the cell cycle, diffusion, osmosis.



**Spring 1**  
Organisation; levels of hierarchy, digestive system, digestive enzymes, food tests. Heart and blood vessels, coronary heart disease, blood, health issues, cancers.  
Organisation; plant tissues, organs and systems, active transport



**Coming From KS3/Referral/Induction...**