

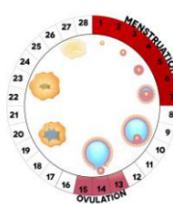


Summer 2
Revision; revision techniques, answering past paper questions, revisit required practicals.
GCSE Biology Paper 1 and Paper 2.

Summer 1
Infection and Response; plant disease, plant defence responses.
Revision; revision techniques, answering past paper questions, revisit required practicals.



Spring 1
Homeostasis and response; hormones in human reproduction, contraception, advantages and disadvantages of fertility treatment.

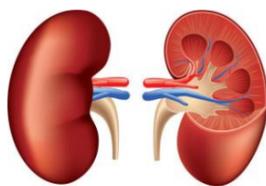


Spring 2
Inheritance, variation and evolution; variation, selective breeding, evolution, speciation, Theory of Evolution, evidence for evolution – fossils and resistant bacteria, extinction.



Autumn 2
Inheritance, variation and evolution; sexual and asexual reproduction, meiosis, sex determination, DNA, DNA structure, genetic inheritance, inherited disorders, genetic engineering, cloning.

Autumn 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.



Summer 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.

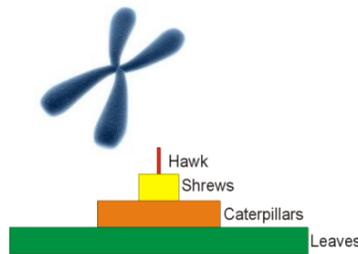


Summer 1
Homeostasis and response; homeostasis, nervous system, reflex actions, the brain, the eye, control of body temperature, human endocrine system, control of blood glucose concentration, water and nitrogen balance, kidney function, kidney failure.

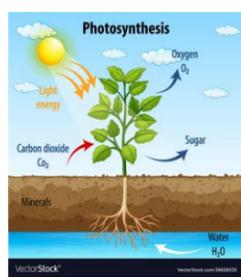
Spring 2
Organisation; heart and blood vessels, coronary heart disease, blood, health issues, cancers. Bioenergetics; aerobic respiration, anaerobic respiration, response to exercise, metabolism.



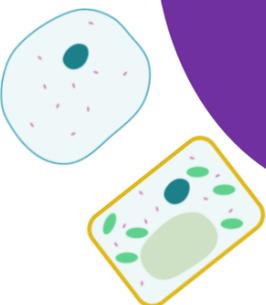
Autumn 2
Ecology; classification, biotic and abiotic factors, distribution of organisms, adaptations, levels of organisation. Cell Biology; chromosomes, mitosis and the cell cycle, diffusion, osmosis.



Autumn 1
Cell Biology; eukaryotic and prokaryotic cells, cell differentiation, stem cells, microscopy. Organisation; levels of hierarchy, digestive system, digestive enzymes, food tests.



Spring 1
Organisation; plant tissues, organs and systems, active transport. Bioenergetics; photosynthesis, rate of photosynthesis, limiting factors, use of glucose. Homeostasis and response; plant hormones, control and coordination.



Coming From KS3/Referral/Induction...