

Programme of Study



Subject: Biology (AQA Exam board)

Year: 13

Autumn 1

- Photosynthesis, the light dependent and the light independent reaction
- Glycolysis
- Link reaction and Krebs cycle
- Oxidative phosphorylation
- Anaerobic respiration
- Energy transfer and productivity
- Nutrient cycles
- Use of natural and artificial fertilizers and issues concerning the use of nitrogen containing fertilisers

Autumn 2

- Survival and response
- Plant growth factors
- Reflex arc, Receptors and control of heart rate
- Neurones and the nerve impulse
- Passage of an action potential
- Transmission across synapse
- Anatomy and physiology of skeletal muscle
- Genetics, populations, evolution and ecosystem

Spring 1

- The control of gene expression
- Genome projects
- Recombinant DNA technology

Spring 2

- In vivo and In vitro gene cloning
- Polymerase chain reaction
- Genetic Screening and Genetic fingerprinting

Summer 1

Revision

Summer 2

Examination