BIOLOGY – Combined Science to Triple Award

GCSE Combined Science (taught to all students if Triple Science has not been opted for at GCSE). All three sciences are taught continuously throughout a term to ensure content is clearly sequenced and knowledge is built/interleaved.

Y10

Autumn Term

Organisation
Digestive system, enzymes, RP food tests, RP effect of pH on enzymes, heart, blood vessels, blood components, heart conditions, health and disease, effect of lifestyle on non-cumminicable diseases, cancer, plant tissues and organs

Spring Term

Bioenergetics
photosynthesis, rates of photosynthesis, RP Effect of light on rate of photosynthesis, uses of glucose from photosynthesis, aerobic and anaerobic respiration, response to exercise, metabolism

Summer Term

Homeostasis & response
Homeostasis, Human nervous system, RP Rection times,
Human endocrine system, Controlling blood glucose, Human reproduction and hormonal control,

Triple Science
The brain and the eye, Control of body temperature, Controlling water and nitrogen, Plant hormones

Y11

Autumn Term

Inheritance, variation and evolution
Sexual and asexual reproduction, Meiosis, DNA and the genome, Genetic inheritance, Variation, Evolution, Classification

Ecology
Adaptations, interdependence and competition, Organisation of an ecosystem, RP Measure populations in a habitat, Material cycling

Spring Term

Ecology
Biodiversity and effect of human interaction on ecosystems

Triple Science
Decomposition, RP investigate effect temperature of milk on rate of decay of fresh milk, Trophic levels, Food production

Summer Term

Class-specific revision and interventions
Cells, Organisation, Infection and Response, Bioenergetics, Homeostasis, Inheritance, variation and evolution, Ecology

Final Exams

KS5
Studying GCSE Science can lead you to a wide variety of courses at KS5.
Biology, Physical Education, Medicine and healthcare, Science and research, Agriculture, Sport and Fitness and Education

BIOLOGY SKILLS:
Biology is the study of life and living organisms, which teaches us all about humans and our surrounding environment. The skills students can learn in biology are transferable and can be applied practically to everyday life.