Biology Learning Journey KS5

SOUTH WILTS GRAMMAR SCHOOL

Matter knowledge
Energy knowledge
Cells knowledge

FE/ HE

Measuring heart rate
Spearmans rank correlation
Tropisms & Plant hormones
Module 5: Animal responses
Auxins and plant growth
Module 5: Plant responses
Genetic crosses & selection
Module 6: Patterns of inheritance
Chi squared
Hardy Weinberg
Bacterial populations
Module 6: Biotechnology and cloning
Immobilised enzymes
Microbiology

Module 5: Hormonal control
Regulation of blood glucose
Module 6: Cellular control
Gene expression
Module 6: Manipulating genomes
Sequencing & genetic engineering
Module 6: Populations and sustainability
Ecosystems & Conservation
Module 6: Ecosystems

YEAR 13

Paired student t-test
Nervous Transmission & Synapses
Module 5: Neuronal communication
Chromatography
Chlorophyll & Calvin Cycle
Module 5: Photosynthesis
Aseptic techniques
Pathogens & Immunity
Module 4: Communicable disease
Dissection/ drawing
Cardiovascular System
Module 3: Animal transport

BIOLOGY OLYMPIAD

Module 5: Respiration
Aerobic & Anaerobic ATP synthesis
BMAT
Module 5: Homeostasis
Thermoregulation & Excretion
UCAT
Evolution & Variation
Module 4: Classification
Module 4: Biodiversity
Simpsons index
Sampling

YEAR 12

Calibration
Microscopy
Respirometer
Eukaryotic & Prokaryotic
Module 2: Cell structure
Extracting DNA
Modelling using ICT
DNA & RNA
Module 2: Nucleotides
Factors affecting permeability
Transport across membranes
Module 2: Biological membranes
Biological drawing
Gas exchange
Module 3: Exchange systems

Module 2: Biological molecules
Carbohydrates, Proteins, Lipids
Testing for biological molecules
Module 2: Enzymes
Factors affecting enzyme activity
Rates of reaction
Module 2: Cell division
Mitosis & Meiosis
Root tip squash
Module 3: Plant transport
Transpiration & Translocation
Dissection/ drawing
Potometers