Biology Learning Journey

A level Sciences – Biology, Chemistry and Physics
(Need grade 6 and above and grade 6 in Maths)

BTEC Human Biology
(Need Grade 5 in Science)

Other post 16 options – Apprenticeships, other A level subjects, other BTEC subjects, other training, College?

Ecology

Predator & prey adaptations
Quadrats
Field investigations *Required Practical*
Carbon cycle
Waste
Maintaining biodiversity
Triple Food ction
Triple Trophic levels
Triple Pyramids of biomass
Triple Sustainable fishing
Triple Mycoprotein
Deforestation & land use
Global warming
Triple Decay *Required Practica*
Water cycle
Transects
Temperature adaptations
Abiotic & biotic factors

YEAR 11

Fossils
Triple Speciation
Triple Embryo transplants
Triple Plant cloning
Genetic engineering
Triple The eye
Reaction time *Required Practical*
Reflex response
Body temperature
Exercise
Anaerobic respiration in animals
Limiting Factors
Photosynthesis
Rate of photosynthesis *Required Practical*
Aerobic respiration
Anaerobic respiration in industry
Nervous system
Triple The brain
Triple Focusing the eye
Insulin & diabetes
The endocrine system
Triple Kidney failure
Triple Water control
Contraception
Triple Plant hormones
Triple Use of plant hormones
Meiosis
Triple DNA Mutations
Genetic disorders
Genetic inheritance
Gender determination
DNA
Asexual & sexual reproduction
Selective breeding
Triple Mendel
Triple Adult cell cloning
Evolution
Classification
Extinction
Triple Antibiotic resistance
Menstrual hormones
Infertility
Triple Plant response *Required Practical*

YEAR 10

Cancer
Non-Communicable diseases
The heart & lungs
Temperature/pH and Enzymes *Required Practical*
Blood
Transpiration
Plant tissues
Communicable diseases
Vaccines
Antibiotics
Drug development
Plant diseases
White blood cells
Triple Aseptic Technique
Triple Inhibition Zones
Triple Monoclonal antibodies
Triple Plant defense
Digestive enzymes
Food tests *Required Practical*
Digestive system
Exchange surfaces
Osmosis *Required Practical*
Stem cells
Microscopes *Required Practical*
Cell differentiation
Active Transport
Diffusion
Mitosis
Magnification
Cell structure

YEAR 9

KS3 Units
Organisms
Ecosystems
Genes