KS4 BIOLOGY

Learning Journey

Final Exam Prep

FEB/MAR MOCKS

MAR

Final Exams

B6 Genetics & Evolution
- Evidence of evolution
- Fossils and extinction
- More about extinction
- Antibiotic resistant bacteria
- Classification
- New systems of classification

SEP: The history of genetics, Theories of evolution

B7 Biodiversity & Ecosystems
- Ecosystems
- Competition
- Adaptations
- Biodiversity
- Cycling
- Human population
- Pollution
- Human impact
- Feeding relationships

SEP: Decomposition, trophic levels, food security, food production

B7 Organising an Ecosystem
- Feeding relationships
- Materials cycling
- The carbon cycle

SEP: Rates of decomposition

FEB

B6 Inheritance, Variation & Evolution

NOV MOCKS

NOV

B7b Test

B7b Ecology

B6 Reproduction
- Types of reproduction
- Inherited disorders
- Inheritance in action
- More about genetics
- Cell division and sexual reproduction
- Screening for genetic disorders

SEP: The best of both worlds, DNA and genome, protein synthesis, Gene expression & mutation

B6 Variation & Evolution
- Variation
- Evolution by natural section
- Selective breeding

SEP: Genetic engineering, Cloning

B7 Adaptions, Interdependence, Competition
- Communities
- Organisms in their environments
- Competition in animals & Plants
- Adaption in animals & Plants

Year 11

Yr 10 Mocks

B5 Homeostasis in Action
SEP:
Controlling body temp, Removing waste products, Kidney functions, dialysis, kidney transplants

B5 Homeostasis & Response

B5 Test

MAR

B7a Ecology

B7a Test

DEC

B4 Test

B5 Hormonal Coordination
- Homeostasis
- Hormonal control
- Diabetes
- Negative feedback
- Human reproduction
- Menstrual cycle
- Fertility

SEP: Plant Hormones and responses, using plant hormones

B5 The Human Nervous System
- Structure and function of the Nervous system
- Reflex actions

SEP: Brain, the eye

B3 Preventing & Treating Diseases
- Vaccinations
- Antibiotics & painkillers
- Discovering & developing drugs

SEP: Making monoclonal antibodies, Uses of monoclonal antibodies

B4 Bioenergetics

B3 Test

B3 Infection & Response

Year 10

B4 Respiration
- Aerobic respiration
- Effect of exercise
- Metabolism and the liver

B4 Photosynthesis
- Photosynthesis
- Rate of Photosynthesis
- How plants use glucose

B3 Communicable diseases
- Health & diseases
- Pathogens & diseases
- Preventing infections
- Viral diseases
- Bacterial diseases
- Fungi & Protists
- Human defence

SEP: Growing bacteria, plant diseases, monoclonal antibodies

B3 Non-communicable diseases
- Non-communicable diseases
- Cancer
- Smoking & risk of disease
- Diet, exercise & diseases
- Alcohol & other