

Biology Predictions

FT Paper 1:

Unit 1: cells

- Drawing cells from a microscope photo, different microscopes, active transport, diffusion

Unit 2: Organisation

- Digestion and enzymes, food test required prac, enzyme required prac
- Heart structure, blood, cancer
- Leaf structure, transpiration, stomata experiment

Unit 3: Infection

- Drug testing
- Diseases – HIV, malaria, salmonella, measles
- Vaccines

Unit 4: Photosynthesis and respiration

- Anaerobic respiration
- Metabolism
- Photosynthesis and uses of glucose – link to food test required practical

HT Paper 1:

Unit 1: cells

- Drawing cells from a microscope photo, different microscopes, active transport, diffusion and SA:V ratio – link to root hair cells, small intestine etc

Unit 2: Organisation

- Digestion and enzymes Adaptations of small intestine, food test required prac, enzyme required prac
- Heart structure, blood, cancer
- Leaf structure, transpiration, stomata experiment

Unit 3: Infection

- Non specific defences
- How white blood cells work
- Drug testing
- Diseases – HIV, malaria, salmonella, measles, rose black spot, TMV

Unit 4: Photosynthesis and respiration

- Photosynthesis and uses of glucose – link to food test required practical
- Limiting factors and graphs
- Respiration and exercise – lactic acid -> liver- > glucose

FT paper 2 biology

Unit 5 :Nerves and hormones

- Reflex required prac
- Glucose and diabetes
- Contraception

Unit 6: Variations and genetics

- What is the human genome?
- Genetic diagrams
- Mutations
- Genetic engineering – the basics
- Evolution , fossils and extinction

Unit 7: Ecology

- Water and carbon cycle
- Biodiversity
- Estimating population size required prac

HT paper 2 biology

Unit 5 :Nerves and hormones

- Reflex required prac
- Glucose and diabetes- negative feedback
- Adrenaline and thyroxine
- Contraception

Unit 6: Variations and genetics

- What is the human genome?
- Genetic diagrams
- Mutations
- Genetic engineering – 6 marker
- Evolution , fossils and extinction

Unit 7: Ecology

- Water and carbon cycle
- Biodiversity
- Estimating population size required prac
- Eutrophication and peat bogs

