

Revision list – Biology

Cells

- Animal cells
- Plant cells
- Specialised cells
- Eukaryotes, Prokaryotes & Fungi
- Microscopes (theory)
- Microscopes – required practical
- Calculating magnification
- Levels of organisation
- Organ systems

Organs

- Blood
- Blood vessels
- The Heart
- Heart disease - Stents
- Pacemakers
- The Lungs
- Effects of exercise on breathing

Bioenergetics

- Photosynthesis
- Adaptation of leaves and stomata
- Reproduction in Plants
- Aerobic Respiration
- Anaerobic respiration
- Metabolism
- Food groups
- Scientific literacy
- Food tests - required practical

Non communicable

- Communicable and non-communicable diseases
- Risk factors and causal mechanisms
- Cancer

Genetics and ecosystems

- DNA and Chromosomes
- History of the DNA model
- Inheritance
- Species and Classification
- Variation
- Natural selection
- Competition and Extinction
- Biodiversity

Transporting substances

- Diffusion and practical
- Exchange surface adaptations
- Osmosis and practical
- Active Transport

Communicable diseases

- Spreading communicable disease
- Growing microbes
- Viral and bacterial disease
- Resistant bacteria
- Fungal and Protist disease
- Body defences
- Vaccination
- Antibiotics/disinfectants and microbe growth
- Medical drugs and clinical trials

Digestion

- The Digestive system
- Enzymes theory
- Enzymes and temp practical
- Enzymes and pH practical
- Digestion of fats & bile practical