

Bramhall High School Biology



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

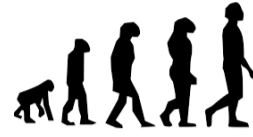


BTEC Human Biology (Need Grade 5 in Science)



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

End of year exams!!



Review Core Practicals and consolidation of learning



- Ecosystems
- Energy transfer
- Abiotic factors and communities
- Biotic factors and communities
- Assessing pollution

- Efficient transport and exchange
- Factors affecting diffusion
- The circulatory system
- The heart
- Cellular respiration

- Control of blood glucose
- Type 2 diabetes
- Thermoregulation
- Osmoregulation
- The kidneys

- Hormones
- Hormonal control of metabolic rate
- The menstrual cycle
- Hormonal control of the menstrual cycle

B7

- Plant adaptations
- Plant hormones
- Uses of plant hormones

B9

B8



- Photosynthesis
- Factors affecting photosynthesis
- Absorbing water and mineral ions
- Transpiration and translocation

- Sexual & asexual reproduction
- Meiosis
- DNA
- Protein synthesis
- Genetic variants and phenotypes

- Tissue culture
- Genes in agriculture and medicine
- GM and agriculture
- Fertilisers and biological control

- Health and disease
- Non-communicable diseases
- Cardiovascular disease
- Pathogens
- Spreading pathogens
- Virus lifecycles

- Plant defences
- Plant diseases
- Physical defences
- Chemical defences
- The immune system
- Antibiotics
- Monoclonal antibodies

YEAR 11

B6

National Curriculum Compliant

B3

- Mendel
- Alleles
- Inheritance
- Gene mutations
- Variation
- Multiple & missing alleles

- Human evolution
- Darwin's theory
- Development of Darwin's theory
- Classification
- Breeds and varieties

B5

- Microscopes
- Plant and animal cells
- Specialised cells
- Inside bacteria
- Enzymes and nutrition



- Threat from disease
- Disease
- Control systems
- Testing medicines
- Ecology
- In and Out
- Combatting pandemics

Health and disease

Genetics and evolution

YEAR 10

B2

- Enzyme action
- Enzyme activity
- Transporting substances
- Food tests

B1

- Environmental variation
- Inherited variation
- DNA
- Genes and extinction
- Natural selection

YEAR 9

Food and nutrition

- Classification and Biodiversity
- Types of reproduction
- Pollination
- Fertilisation and dispersal
- Germination and growth

- Aerobic respiration
- Gas exchange systems
- Getting oxygen
- Comparing gas exchange
- Anaerobic respiration

Unicellular organisms

YEAR 8

- Nutrients
- Diet
- Digestion
- Absorption

Plants and their reproduction

Breathing and respiration

- Unicellular or multicellular
- Microscopic fungi
- Bacteria
- Protocists
- Decomposers and carbon

Muscle and bones

- Animal sexual reproduction
- Reproductive organs
- Becoming pregnant
- Gestation and birth
- Growing up

Cells Tissues Organs and Systems

Science Skills

YEAR 7

- Variation
- Adaptation
- Effects of the environment
- Effects on the environment
- Transfers in food chains

Ecosystems

- Muscles and breathing
- Muscles and blood
- The skeleton
- Muscles and moving
- Drugs

Sexual reproduction in animals

- Life processes
- Organs
- Tissues
- Cells
- Organ Systems



welcome

