

Edexcel - Video list

Entry Level

Biology



1. Key Concepts in biology

Eukaryotic and prokaryotic cells
Microscopes and magnification
Microscope drawing and measuring cell size
Specialised cells

2. Cells and control

Cell division Stem cells

The nervous system

3. Genetics

DNA and the human genome project Genetic diagrams Variation and mutation

4. Natural Selection and genetic modification

Selective Breeding
Genetic Engineering

5. Health, disease and the development of medicines

Health and disease Cardiovascular disease Immunity and vaccination Non-communicable disease Antibiotics and drug trials

6. Plant Structures and their functions

[None]

7. Animal coordination, control and homeostasis

The menstrual cycle foundation

8. Exchange and transport in animals [None]

9. Ecosystems and material cycles [None]

Chemistry



1. Key concepts in chemistry

Atomic structure
The Periodic Table
Ionic bonding

Properties of ionic, covalent and metallic structures

Conservation of mass Giant covalent structures

2. States of matter and mixtures

States of matter

Methods of separating substances

Water for drinking

3. Chemical changes

Reactions of acids Making soluble salts

4. Extracting metals and equilibria

Extraction of metals and redox Recycling materials and Life Cycle Assessment

5. Separate chemistry 1

None

6. Groups in the periodic table

Group 0 - The Noble Gases

7. Rates of reaction and energy changes

Exothermic and endothermic reactions Factors affecting rates of reaction

8. Fuels and Earth science

Crude oil and alkanes The Earth's atmosphere Gas tests

Physics



1. Key concepts of physics

Key concepts of Physics

2. Motion and forces

Distance and displacement, speed and velocity

Forces and braking

3. Conservation of energy

Energy stores and transfers Energy resources

4. Waves

Transverse and longitudinal waves Properties of waves

5. Light and the electromagnetic spectrum

Electromagnetic waves 1 Electromagnetic waves 2

6. Radioactivity

Radioactive decay

7. Astronomy

[None

8. Energy - forces doing work

Forces, motion and work done

9. Forces and their effects

Contact and non-contact forces

10. Electricity and circuits

Electric charge and current

Circuit symbols

Potential difference, current and resistance Mains electricity

11. Static electricity

[None

12. Magnetism and the motor effect

Magnetism

The motor effect

13. Electromagnetic induction

[None

14. Particle model

Density

Solids, liquids and gases

15. Forces and matter

[None]