AQA – Video list

Double Award

Double Award includes all of the Entry Level videos and, in addition, the topics below...

ENTRY LEVEL →

Biology

1. Cell biology
Microscope and Magnification 1
Microscope and Magnification 2
Chromosomes and Mitosis
Stem Cells
Diffusion
Osmosis
Active Transport

2. Organisation
An Introduction to Enzymes
Enzymes in the digestive system
Cardiovascular disease
Transpiration in plants
Organisation in plants

3. Infection and response
Viral, bacterial, fungal and protist diseases
Immunity and vaccination
Fighting diseases with drugs

4. Bioenergetics
The rate of photosynthesis - Limiting Factors
Investigating the rate of photosynthesis
Respiration and metabolism
The effect of exercise on the body

5. Homeostasis and response
Adrenalin and Thyroxine
Controlling blood glucose

6. Inheritance, variation and evolution
Inherited disorders - Polydactyly
Inherited disorders - Cystic Fibrosis
Screening for genetic disorders
Selective breeding
Genetic engineering
Evidence of evolution and extinction
Classification and evolutionary trees

7. Ecology
Communities and interdependence
Cycling in ecosystems
Rates of decomposition
Measuring the Distribution of Organisms

Chemistry

1. Atomic structure
Scientific models of the atom
Atomic structure
Relative atomic mass
Electronic structure
Group 0 - Noble Gases
Group 1 - Alkali Metals
Group 7 - Halogens

2. Bonding
Covalent bonding
Metallic bonding
Graphene and fullerenes

3. Quantitative Chemistry
Relative formula mass
Mass changes
The mole
Reacting masses
Concentration in gdm^3

4. Chemical Changes
The reactivity of metals
Displacement reactions
The pH scale and neutralisation
Strong and weak acids
Electrolysis (molten)
Using electrolysis to extract metals
Electrolysis (aqueous)

5. Energy Changes
Reaction profile diagrams
Calculating energy changes

6. Rate and extent of chemical change
Measuring rates of reaction
Interpreting rate graphs
Collision theory and activation energy
Reversible reactions and equilibrium
Factors affecting equilibrium

7. Organic Chemistry
Combustion of hydrocarbons
Cracking and alkenes

8. Chemical Analysis
Purity and formulations
Gas tests

9. Chemistry of the atmosphere
The greenhouse effect and global warming
Atmospheric pollutants

10. Using Resources
Sustainable development
Alternative methods of extracting metals

Physics

1. Energy
Power
Conservation and dissipation of energy

2. Electricity
Resistors
Series and Parallel Circuits
Power and energy transfers
The National Grid

3. Particle model of matter
Specific heat capacity and specific latent heat
Particle model and pressure

4. Atomic structure
Atoms and isotopes
The development of the model of the atom
Half-lives and the random nature of radioactive decay
Radioactive contamination

5. Forces
Scalars and vectors Gravity
Resultant forces
Forces and elasticity
Distance-time graphs
Acceleration
Velocity-time graphs
Falling objects
Newton's laws of motion
Momentum 1

6. Waves
[No additional videos]

7. Magnetism and electromagnetism
[No additional videos]

8. Space Physics
[None]