OCR Gateway – Video list

Entry Level

Biology

1. Cell level systems
Eukaryotic and Prokaryotic Cells
Enzymes
Respiration
Photosynthesis

2. Scaling up
Specialised Cells
The Circulatory System

3. Organism level systems
The Nervous System
Human Reproduction

4. Community level systems
[None]

5. Genes, inheritance and selection
Sexual and Asexual Reproduction and Meiosis
Natural Selection
Inheritance

6. Global challenges
Preventing The Spread of Pathogens
Preventing and Treating Communicable Disease
Immunity and Vaccination
Developing New Drugs

Chemistry

1. Particles
The Particle Model

2. Elements, compounds and mixtures
Separation techniques
Chromatography
The Periodic Table
Ionic Bonding
Giant covalent structures
Changing state
Bulk properties of materials

3. Chemical reactions
Chemical formulae
Conservation of mass and balanced equations
Exothermic and endothermic reactions
Reactions of acids
Making salts

4. Predicting and identifying reactions
Group 0 - The Noble Gases
Gas tests

5. Monitoring and controlling reactions
Factors affecting rates of reaction

6. Global challenges
Extracting metals
Recycling materials
Forming the atmosphere
Water for drinking

Physics

1. Matter
Density
Solids, liquids and gases

2. Forces
Distance and displacement, speed and velocity
Contact and non-contact forces
Forces, motion and work done

3. Electricity
Electric charge and current
Circuit symbols
Potential difference, current and resistance

4. Magnetism and magnetic fields
Magnets and magnetic fields
The motor effect

5. Waves in matter
Transverse and longitudinal waves
Properties of waves
Electromagnetic waves 1
Electromagnetic waves 2

6. Radioactivity
Radioactive decay

7. Energy
Work done

8. Global challenges
Forces and braking
Energy resources
Mains electricity