

Entry Level - video list



| Physics | Chemistry | Biology |
|---|--|--|
| 1. Energy Energy National and global energy resources | 1. Atomic structure Atoms, elements, compounds and mixtures Separating mixtures The Periodic Table | 1. Cell biology Eukaryotic and prokaryotic cells Specialised Cells |
| 2. Electricity Circuit Symbols Introduction to Electricity Domestic uses and safety | 2. Bonding Ionic bonding Solids, liquids and gases Properties of ionic, covalent, metallic structures Giant covalent structures | 2. Organisation The Circulatory System Health and risk factors |
| 3. Particle model of matter Density Solids, liquids and gases | 3. Quantitative Chemistry Conservation of mass and balanced chemical equations | 3. Infection and response Preventing the spread of pathogens |
| 4. Atomic structure Radioactive decay | 4. Chemical Changes Extraction of metals Reactions of acids Making salts | 4. Bioenergetics Photosynthesis |
| 5. Forces Contact and non-contact forces Work done and energy transfer Distance and Displacement, Speed and Velocity Forces and braking (Double) | 5. Energy Changes Exothermic and endothermic reactions | 5. Homeostasis and response The nervous system Hormones in human reproduction |
| 6. Waves Transverse and longitudinal waves Properties of waves Electromagnetic waves 1 Electromagnetic waves 2 | 6. Rate and extent of chemical change Factors affecting rates | 6. Inheritance, variation and evolution Genetic inheritance Asexual vs sexual reproduction and meiosis DNA and the genome Natural Selection |
| 7. Magnetism and electromagnetism Permanent and induced magnetism and fields The motor effect | 7. Organic Chemistry Crude oil and alkanes Potable water | 7. Ecology Adaptation Human impact on the environment |
| 8. Space Physics [None] | 8. Chemical Analysis Chromatography Gas tests | |
| | 9. Chemistry of the atmosphere The Earth's atmosphere | |
| | 10. Using Resources Potable water Life Cycle Assessment | |