

# Double Award - video list

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



Physics	Chemistry	Biology
<b>1. Energy</b> Power Conservation and dissipation of energy	<b>1. Atomic structure</b> Scientific models of the atom Atomic structure Relative atomic mass	<b>1. Cell biology</b> Microscope and Magnification 1 Microscope and Magnification 2 Chromosomes and Mitosis Stem Cells
<b>2. Electricity</b> Resistors Series and Parallel Circuits Power and energy transfers The National Grid	Electronic structure Group 0 - Noble Gases Group 1 - Alkali Metals Group 7 - Halogens	Diffusion Osmosis Active Transport
<b>3. Particle model of matter</b> Specific heat capacity and specific latent heat Particle model and pressure	<b>2. Bonding</b> Covalent bonding Metallic bonding Graphene and fullerenes	<b>2. Organisation</b> An Introduction to Enzymes Enzymes in the digestive system Cardiovascular disease Transpiration in plants Organisation in plants
<b>4. Atomic structure</b> Atoms and isotopes The development of the model of the atom Half-lives and the random nature of radioactive decay Radioactive contamination	<b>3. Quantitative Chemistry</b> Relative formula mass Mass changes The mole Reacting masses Concentration in gdm <sup>3</sup>	<b>3. Infection and response</b> Viral, bacterial, fungal and protist diseases Immunity and vaccination Fighting diseases with drugs
<b>5. Forces</b> 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	<b>4. Chemical Changes</b> The reactivity of metals Displacement reactions The pH scale and neutralisation Strong and weak acids Electrolysis (molten) Using electrolysis to extract metals Electrolysis (aqueous)	<b>4. Bioenergetics</b> The rate of photosynthesis - Limiting Factors Investigating the rate of photosynthesis Respiration and metabolism The effect of exercise on the body The effect of exercise on the body
<b>6. Waves</b> [No additional videos]	<b>5. Energy Changes</b> Reaction profile diagrams Calculating energy changes	<b>5. Homeostasis and response</b> Adrenalin and Thyroxine Controlling blood glucose
<b>7. Magnetism and electromagnetism</b> [No additional videos]	<b>6. Rate and extent of chemical change</b> Measuring rates of reaction Interpreting rate graphs Collision theory and activation energy Reversible reactions and equilibrium Factors affecting equilibrium	<b>6. Inheritance, variation and evolution</b> Inherited disorders - Polydactyly Inherited disorders - Cystic Fibrosis Screening for genetic disorders Selective breeding Genetic engineering Evidence of evolution and extinction Classification and evolutionary trees
<b>8. Space Physics</b> [None]	<b>7. Organic Chemistry</b> Combustion of hydrocarbons Cracking and alkenes	<b>7. Ecology</b> Communities and interdependence Cycling in ecosystems Rates of decomposition Measuring the Distribution of Organisms
	<b>8. Chemical Analysis</b> Purity and formulations Gas tests	
	<b>9. Chemistry of the atmosphere</b> The greenhouse effect and global warming Atmospheric pollutants	
	<b>10. Using Resources</b> Sustainable development Alternative methods of extracting metals	