

Welcome to the Science Therapies. Please log in to [GCSEPod](#) and access the following clips. Please note that the links will direct you to the overall group of pods for that subject area, please select the appropriate clips for the corresponding area of development:

The areas of development are:	Therapy
<ul style="list-style-type: none"> BIOLOGY Paper 1: Cell biology - unspecialised plant cells, differentiation, cells structure and microscopes 	<ul style="list-style-type: none"> 4.1.1/Cell structure
<ul style="list-style-type: none"> BIOLOGY Paper 1: Cell biology - cells, mitosis, stem cells, growth and multicellular organisms 	<ul style="list-style-type: none"> 4.1.2/Cell division
<ul style="list-style-type: none"> BIOLOGY Paper 1: Cell biology - osmosis, diffusion and active transport, surface to volume ration and gas exchange 	<ul style="list-style-type: none"> 4.1.3/Transport in cells
<ul style="list-style-type: none"> BIOLOGY Paper 1: Organisation - diet, health, disease, enzymes, blood and the circulatory system 	<ul style="list-style-type: none"> 4.2.2/Animal tissues, organs and organ systems
<ul style="list-style-type: none"> BIOLOGY Paper 1: Organisation - transpiration, plant organs, plant structures and plant minerals 	<ul style="list-style-type: none"> 4.2.3/Plant tissues, organs and systems
<ul style="list-style-type: none"> BIOLOGY Paper 1: Infection and response - immunisation, drugs trials, viruses, disease prevention, defences, immunity and resistance 	<ul style="list-style-type: none"> 4.3.1/Communicable diseases
<ul style="list-style-type: none"> BIOLOGY Paper 1: Bioenergetics - photosynthesis, limiting factors, gas exchange and plant growth 	<ul style="list-style-type: none"> 4.4.1/Photosynthesis
<ul style="list-style-type: none"> BIOLOGY Paper 1: Bioenergetics - metabolism, respiration both aerobic and anaerobic and energy 	<ul style="list-style-type: none"> 4.4.2/Respiration
<ul style="list-style-type: none"> BIOLOGY Paper 2: Homeostasis and response - Homeostasis 	<ul style="list-style-type: none"> 4.5.1/Homeostasis
<ul style="list-style-type: none"> BIOLOGY Paper 2: Homeostasis and response - Central nervous system, reflex arc, synapses, reflexes, receptors and effectors 	<ul style="list-style-type: none"> 4.5.2/The human nervous system
<ul style="list-style-type: none"> BIOLOGY Paper 2: Homeostasis and response - Type 1 and type 2 diabetes, hormones, controlling fertility and human reproduction 	<ul style="list-style-type: none"> 4.5.3/Hormonal coordination in humans
<ul style="list-style-type: none"> BIOLOGY Paper 2: Inheritance, variation and evolution - meiosis, genetics, inheritance, foetal screening, sperm and egg and reproduction in plants 	<ul style="list-style-type: none"> 4.6.1/Reproduction

<ul style="list-style-type: none"> • BIOLOGY Paper 2: Inheritance, variation and evolution -genetic engineering, GM, cloning, variation, selective breeding and speciation 	<ul style="list-style-type: none"> • 4.6.2/Variation and evolution
<ul style="list-style-type: none"> • BIOLOGY Paper 2: Inheritance, variation and evolution -extinction, evolution, bacteria, Darwin and evolution, natural selection and fossil record 	<ul style="list-style-type: none"> • 4.6.3/The development of understanding of genetics and evolution
<ul style="list-style-type: none"> • BIOLOGY Paper 2: Inheritance, variation and evolution - five kingdoms and classification 	<ul style="list-style-type: none"> • 4.6.4/Classification of living organisms
<ul style="list-style-type: none"> • BIOLOGY Paper 2: Ecology - competition, adaptations, extreme conditions and ecosystems 	<ul style="list-style-type: none"> • 4.7.1/Adaptations, interdependence and competition
<ul style="list-style-type: none"> • BIOLOGY Paper 2: Ecology - carbon cycle, fieldwork, water cycle, food chains and webs 	<ul style="list-style-type: none"> • 4.7.2/Organisation of an ecosystem
<ul style="list-style-type: none"> • BIOLOGY Paper 2: Ecology - population change, biodiversity, human waste, deforestation and peat removal, global pollution and greenhouse effect 	<ul style="list-style-type: none"> • 4.7.3/Biodiversity and the effect of human interaction on ecosystems
<ul style="list-style-type: none"> • CHEMISTRY Paper 1: Atomic structure and the periodic table - elements, structure of the atom, subatomic particles, RAM, reactions, elements and compounds 	<ul style="list-style-type: none"> • 5.1.1/A simple model of the atom, symbols, relative atomic mass, electronic charge and isotopes
<ul style="list-style-type: none"> • CHEMISTRY Paper 1: Atomic structure and the periodic table - Group 1, Group 7, Noble Gases and Periodic table 	<ul style="list-style-type: none"> • 5.1.2/The periodic table
<ul style="list-style-type: none"> • CHEMISTRY Paper 1: Bonding, structure and the properties of matter - Ionic bonding, covalent bonding, metallic bonding, simple and giant structures 	<ul style="list-style-type: none"> • 5.2.1/Chemical bonds, ionic, covalent and metallic
<ul style="list-style-type: none"> • CHEMISTRY Paper 1: Bonding, structure, and the properties of matter - states of matter and properties of metals 	<ul style="list-style-type: none"> • 5.2.2/How bonding and structure are related to the properties of substances
<ul style="list-style-type: none"> • CHEMISTRY Paper 1: Bonding, structure, and the properties of matter - allotropes of carbon 	<ul style="list-style-type: none"> • 5.2.3/Structure and bonding of carbon
<ul style="list-style-type: none"> • CHEMISTRY Paper 1: Quantitative chemistry - atoms and formula, RFM, % mass, uncertainty and mass change 	<ul style="list-style-type: none"> • 5.3.1/Chemical measurements, conservation of mass and the quantitative interpretation of chemical equations
<ul style="list-style-type: none"> • CHEMISTRY Paper 1: Quantitative chemistry - reactions, empirical formula, moles, concentration and reacting masses 	<ul style="list-style-type: none"> • 5.3.2/Use of amount of substance in relation to masses of pure substances
<ul style="list-style-type: none"> • CHEMISTRY Paper 1: Chemical changes - metals and ores, transition metals, displacement, REDOX and Oxides 	<ul style="list-style-type: none"> • 5.4.1/Reactivity of metals
<ul style="list-style-type: none"> • CHEMISTRY Paper 1: Chemical changes - salts, acids and bases, alkalis, neutralisation, strong and weak acids, acid and metal reactions 	<ul style="list-style-type: none"> • 5.4.2/Reactions of acids
<ul style="list-style-type: none"> • CHEMISTRY Paper 1: Chemical changes - electrolysis, electrodes and the uses of electrolysis 	<ul style="list-style-type: none"> • 5.4.3/Electrolysis
<ul style="list-style-type: none"> • CHEMISTRY Paper 1: Energy changes - exo and endothermic reactions, bond breaking and making, measuring energy changes and calculating bond energies 	<ul style="list-style-type: none"> • 5.5.1/Exothermic and endothermic reactions
<ul style="list-style-type: none"> • CHEMISTRY Paper 2: The rate and extent of chemical change - reaction rate and collision theory, factors affecting rate, catalysts, rate of reaction graphs and measuring rate 	<ul style="list-style-type: none"> • 5.6.1/Rate of reaction
<ul style="list-style-type: none"> • CHEMISTRY Paper 2: The rate and extent of chemical change - reversible reactions and choosing reaction conditions 	<ul style="list-style-type: none"> • 5.6.2/Reversible reactions and dynamic equilibrium

<ul style="list-style-type: none"> CHEMISTRY Paper 2: Organic chemistry - crude oil, alkanes, fuels and combustion 	<ul style="list-style-type: none"> 5.7.1/Carbon compounds as fuels and feedstock
<ul style="list-style-type: none"> CHEMISTRY Paper 2: Chemical analysis - chromatography, formulations and pure substances 	<ul style="list-style-type: none"> 5.8.1/Purity, formulations and chromatography
<ul style="list-style-type: none"> CHEMISTRY Paper 2: Chemical analysis - identification of common gases 	<ul style="list-style-type: none"> 5.8.2/Identification of common gases
<ul style="list-style-type: none"> CHEMISTRY Paper 2: Chemistry of the atmosphere - atmosphere past and present 	<ul style="list-style-type: none"> 5.9.1/The composition and evolution of the Earth's atmosphere
<ul style="list-style-type: none"> CHEMISTRY Paper 2: Chemistry of the atmosphere - climate changes and processes that change the atmosphere 	<ul style="list-style-type: none"> 5.9.2/Carbon dioxide and methane as greenhouse gases
<ul style="list-style-type: none"> CHEMISTRY Paper 2: Chemistry of the atmosphere - impact of burning hydrocarbons and pollution 	<ul style="list-style-type: none"> 5.9.3/Common atmospheric pollutants and their sources
<ul style="list-style-type: none"> CHEMISTRY Paper 2: Using resources - Purifying Water and testing for water 	<ul style="list-style-type: none"> 5.10.1/Using the Earth's resources and obtaining potable water
<ul style="list-style-type: none"> CHEMISTRY Paper 2: Using resources - reducing pollution and recycling metals 	<ul style="list-style-type: none"> 5.10.2/Life cycle assessment and recycling
<ul style="list-style-type: none"> PHYSICS Paper 1: Energy - Energy changes in a system and the ways energy is stored before and after such changes - EPE, GPE, Power, What is energy, Conservation, Efficiency and insulation 	<ul style="list-style-type: none"> 6.1.1/Energy changes in a system, and the ways energy is stored before and after such changes
<ul style="list-style-type: none"> PHYSICS Paper 1: Energy - Conservation and dissipation of energy including Conservation of Energy, Efficiency and Insulation 	<ul style="list-style-type: none"> 6.1.2/Conservation and dissipation of energy
<ul style="list-style-type: none"> PHYSICS Paper 1: Electricity - Current, potential difference and resistance including Ohm's law, IV graphs, Circuit symbols, resistors and LDR's 	<ul style="list-style-type: none"> 6.2.1/Current, potential difference and resistance
<ul style="list-style-type: none"> PHYSICS Paper 1: Electricity - Series and parallel circuits including resistor combinations, series and parallel circuits 	<ul style="list-style-type: none"> 6.2.2/Series and parallel circuits
<ul style="list-style-type: none"> PHYSICS Paper 1: Electricity - Domestic uses and safety including ac/dc, batteries/cells, insulation, fuses, plugs and RCD's 	<ul style="list-style-type: none"> 6.2.3/Domestic uses and safety
<ul style="list-style-type: none"> PHYSICS Paper 1: Electricity - Energy transfers including transformers, national grid, electrical power and energy transfers in the home 	<ul style="list-style-type: none"> 6.2.4/Energy transfers
<ul style="list-style-type: none"> PHYSICS Paper 1: Particle model of matter - Changes of state and the particle model including density, changes of state and states of matter 	<ul style="list-style-type: none"> 6.3.1/Changes of state and the particle model
<ul style="list-style-type: none"> PHYSICS Paper 1: Particle model of matter - Internal energy and energy transfers including heat and temperature; SHC and latent heat 	<ul style="list-style-type: none"> 6.3.2/Internal energy and energy transfers
<ul style="list-style-type: none"> PHYSICS Paper 1: Particle model of matter - Particle model and pressure including Kinetic Theory 	<ul style="list-style-type: none"> 6.3.3/Particle model and pressure
<ul style="list-style-type: none"> PHYSICS Paper 1: Atomic Structure - Atoms and isotopes including history, isotopes and the PT, protons, neutrons and the atom 	<ul style="list-style-type: none"> 6.4.1/Atoms and isotopes
<ul style="list-style-type: none"> PHYSICS Paper 1: Atomic Structure - Atoms and nuclear radiation including Alpha, Beta, Gamma ,the dangers of radioactivity, half-life, ionising and detecting, decay and transmutation and nuclear reactions 	<ul style="list-style-type: none"> 6.4.2/Atoms and nuclear radiation

<ul style="list-style-type: none"> • PHYSICS Paper 2: Forces - resultant forces, vectors and scalars 	<ul style="list-style-type: none"> • 6.5.1/Forces and their interactions
<ul style="list-style-type: none"> • PHYSICS Paper 2: Forces - work done 1 and work done 2 	<ul style="list-style-type: none"> • 6.5.2/Work done and energy transfer
<ul style="list-style-type: none"> • PHYSICS Paper 2: Forces - elastic potential energy and Hooke's Law 	<ul style="list-style-type: none"> • 6.5.3/Forces and elasticity
<ul style="list-style-type: none"> • PHYSICS Paper 2: Forces - acceleration, distance time graphs, Newton's Laws, speed and stopping distances 	<ul style="list-style-type: none"> • 6.5.6/Forces and motion
<ul style="list-style-type: none"> • PHYSICS Paper 2: Forces - momentum and collisions 	<ul style="list-style-type: none"> • 6.5.5/Momentum
<ul style="list-style-type: none"> • PHYSICS Paper 2: Waves - wavelength, the wave equation and types of wave 	<ul style="list-style-type: none"> • 6.6.1/Waves in air, fluids and solids
<ul style="list-style-type: none"> • PHYSICS Paper 2: Waves - wireless signals, the EMS, refraction, frequency and wavelength 	<ul style="list-style-type: none"> • 6.6.2/Electromagnetic waves
<ul style="list-style-type: none"> • PHYSICS Paper 2: Magnetism and electromagnetism - magnetic fields 	<ul style="list-style-type: none"> • 6.7.1/Permanent and induced magnetism, magnetic forces and fields
<ul style="list-style-type: none"> • PHYSICS Paper 2: Magnetism and electromagnetism - electromagnets, left hand and right hand rule 	<ul style="list-style-type: none"> • 6.7.2/The motor effect
<ul style="list-style-type: none"> • presenting observations and other data using appropriate methods 	<ul style="list-style-type: none"> • undertake the exercises on the AQA Making Sense of Graphical Data and Describing Patterns documents
<ul style="list-style-type: none"> • carrying out and representing mathematical and statistical analysis 	<ul style="list-style-type: none"> • undertake the exercises on the AQA Describing Patterns document
<ul style="list-style-type: none"> • interpreting observations and other data (presented in verbal, diagrammatic, graphical, symbolic or numerical form), including identifying patterns and trends, making inferences and drawing conclusions 	<ul style="list-style-type: none"> • undertake the exercises on the AQA The Earl of Abergavenny and Organising a mind map documents
<ul style="list-style-type: none"> • being objective, evaluating data in terms of accuracy, precision, repeatability and reproducibility and identifying potential sources of random and systematic error 	<ul style="list-style-type: none"> • undertake the exercises on the AQA Describing Patterns document
<ul style="list-style-type: none"> • identifying trends on a graph and producing a conclusion 	<ul style="list-style-type: none"> • undertake the exercises on the AQA Describing Patterns document
<ul style="list-style-type: none"> • plotting data and drawing a line of best fit 	<ul style="list-style-type: none"> • undertake the exercises on the AQA Making Sense of Graphical Data document
<ul style="list-style-type: none"> • making conclusions from table data 	<ul style="list-style-type: none"> • undertake the exercises on the AQA Making Sense of Graphical Data and Pineapple jelly documents
<ul style="list-style-type: none"> • evaluating information from a table and linking it to own knowledge 	<ul style="list-style-type: none"> • undertake the exercises on the AQA Pineapple jelly document

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