

GCSE Triple Science - What to revise - Edexcel Exam Board

Biology 1 Tuesday 12th May 2026. 1 hour 45 minutes

Topic 1 - Key concepts in biology (cells, microscopy, enzymes, food tests, diffusion, osmosis, active transport)

Topic 2 - Cells and control (mitosis, growth in plants and animals, stem cells, nervous system, the eye, brain)

Topic 3 - Genetics (sexual & asexual reproduction, meiosis, DNA & extraction, genetic diagrams, Mendel, variation, mutations, co-dominance and sex-linked disorders)

Topic 4 - Natural selection/ genetic modification (Human evolution and stone tools, Darwin's theories, pentadactyl limb, classification, natural selection, selective breeding, genetic engineering, genetic engineering in bacteria, tissue culture, GM in agriculture and medicine)

Topic 5 - Health, disease & development of medicines (Communicable & Non-communicable disease, cardiovascular disease, pathogens & how spread, prevention of transmission, virus life cycle, plant defences & diseases, physical & chemical barriers, immune system, vaccinations, antibiotics and monoclonal antibodies.)

Chemistry 1 Monday 18th May 2026. 1 hour 45 minutes

Topic 1 - Key concepts in chemistry (equations, atoms, Periodic Table, Ionic, Covalent (molecular & giant), metallic bonding, relative formula mass, empirical formulae, reacting masses, concentrations)

Topic 2 - States of matter and mixtures (distillation, filtration, chromatography)

Topic 3 - Chemical changes (acids, bases, making soluble & insoluble salts, electrolysis)

Topic 4 - Extracting metals and equilibrium (reactivity series, extraction - carbon and electrolysis, recycling)

Topic 5 - Separate Chemistry 1 (Yields, Titrations, Haber process, chemical & fuel cells)

Physics 1 Tuesday 2nd June 2026. 1 hour 45 minutes

Topic 1 - Motion (Vectors, scalars, Speed & Velocity, Motion graphs)

Topic 2 - Motion and forces (Resultant forces, Newton's Laws, Momentum (Higher), Stopping Distance)

Topic 3 - Conservation of energy (Energy Stored & Transfers, efficiency, energy resources)

Topic 4 - Waves (Wave speed, refraction, ears, ultrasound, infrasound)

Topic 5 - Light and the electromagnetic spectrum (Ray diagrams, Colour, lenses, EM Spectrum)

Topic 6 - Radioactivity (Atom models, types of radiation, half-life, medicine, nuclear energy)

Topic 7 - Astronomy (Solar System, gravity, life cycles of stars, red-shift, origins of the universe)

Biology 2 Monday 8th June 2026. 1 hour 45 minutes

Topic 1 - Key concepts in biology (cells, microscopy, enzymes, food tests, diffusion, osmosis, active transport)

Topic 6 - Plant structures and their functions (Photosynthesis, factors that affect photosynthesis, transport around the plant, absorbing water & mineral ions, transpiration & translocation, structure of xylem & phloem, plants adaptations, plant hormones and uses of plant hormones)

Topic 7 - Animal coordination, control and homeostasis (Hormones, metabolic rate (H), Menstrual cycle, Diabetes & control of blood glucose, thermoregulation, osmoregulation, the kidney)

Topic 8 - Exchange & transport in animals (Diffusion, SA:V ratio, blood, heart, circulation, respiration)

Topic 9 - Ecosystems and material cycles (Ecosystems, energy transfer, Abiotic & Biotic Factors, quadrats & transects, parasitism & mutualism, air & water pollution, water cycle, carbon cycle, nitrogen cycle, decomposition, food security, preserving biodiversity and eutrophication)

Chemistry 2 Friday 12th June 2026. 1 hour 45 minutes

Topic 1 - Key concepts in chemistry (equations, atoms, Periodic Table, Ionic, Covalent (molecular & giant), metallic bonding, relative formula mass, empirical formulae, reacting masses, concentrations)

Topic 6 - Groups in the periodic table (Group 1, 7, 0, reactivity of group 1, 7 & 0 elements)

Topic 7 - Rates of reaction & energy changes (rates of reaction, exothermic/endothermic reactions)

Topic 8 - Fuels and Earth science (Hydrocarbons, fractional distillation, cracking, atmosphere)

Topic 9 - Separate Chemistry 2 (alcohols, carboxylic acids, polymers, testing for ions, materials)

Physics 2 Monday 15th June 2026. 1 hour 45 minutes

Topic 8 - Energy - Forces doing work (Work & Power)

Topic 9 - Forces and their effects - (Vector diagrams, rotational forces)

Topic 10 - Electricity and circuits (Circuits, Potential Difference, Current, Resistance, Power)

Topic 11 - Static Electricity (Charges, Dangers, Electric Fields)

Topic 12 - Magnetism & the motor effect (Magnetic Fields)

Topic 13 - Electromagnetic induction (Induction (Higher), National Grid, Transformers)

Topic 14 - Particle model (Density, Energy & changes of state - specific heat capacity/ latent heat)

Topic 15 - Forces and matter (Springs, pressure)

Useful Websites:

www.padlet.com

www.educake.co.uk

www.physicsandmathstutor.com

www.bbc.co.uk/bitesize