

GCSE Combined Science - What to revise - Edexcel Exam Board

Biology 1 Tuesday 12th May 2026. 1 hour 10 minutes

Topic 1 - Key concepts in biology (cells, microscopy, enzymes, diffusion, osmosis, active transport)
Topic 2 - Cells and control (mitosis, growth in plants and animals, stem cells, nervous system)
Topic 3 - Genetics (sexual reproduction, meiosis, DNA & extraction, genetic diagrams, variation, mutations)
Topic 4 - Natural selection/ genetic modification (Human evolution and stone tools, Darwin's theories, classification, natural selection, selective breeding, genetic engineering, genetic engineering in bacteria (H))
Topic 5 - Health, disease and the development of medicines (Communicable & Non-communicable disease, cardiovascular disease, pathogens and how they are spread, prevention of transmission, physical & chemical barriers, immune system, vaccinations and antibiotics)

Chemistry 1 Monday 18th May 2026. 1 hour 10 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, distillation, 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)

Physics 1 Tuesday 2nd June 2026. 1 hour 10 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)
Topic 5 - Light and the electromagnetic spectrum (Ray diagrams, EM Spectrum)
Topic 6 - Radioactivity (Atom models, types of radiation, half-life)

Biology 2 Monday 8th June 2026, 1 hour 10 minutes

Topic 1 - Key concepts in biology (cells, microscopy, enzymes, 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 and structure of xylem & phloem)
Topic 7 - Animal coordination, control and homeostasis (Hormones, metabolic rate (H), Menstrual cycle and Diabetes & control of blood glucose)
Topic 8 - Exchange and transport in animals (Diffusion, SA:V ratio, blood, heart, circulation, respiration)
Topic 9 - Ecosystems and material cycles (Ecosystems, Abiotic & Biotic Factors, quadrats & transects, parasitism & mutualism, water cycle, carbon cycle, nitrogen cycle, preserving biodiversity and eutrophication)

Chemistry 2 Friday 12th June 2026. 1 hour 10 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)

Physics 2 Monday 15th June 2026, 1 hour 10 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 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