Biology	Revised using carousel (tick)	Practiced Exam q's (tick)
Cell Biology		
Cell structure (animal, plant, bacterial cells)		
Cell division (mitosis and the cell cycle)		
Stem cells and their uses		
Diffusion, osmosis, active transport		
Organisation		
Digestive system and enzymes		
Blood, heart, and circulatory system		
Respiratory system and gas exchange		
Plant tissues, organs, and transpiration		
Non-communicable diseases (e.g., cancer, CHD)		
Infection and Response		
Pathogens (bacteria, viruses, fungi, protists)		
Immune system and vaccinations		
Drugs (e.g., antibiotics, painkillers)		
Bioenergetics		
Photosynthesis (equation, factors affecting)		
Respiration (aerobic, anaerobic, and metabolism)		
Homeostasis and Response		
Nervous system, reflexes		
Hormonal coordination (e.g., insulin, menstrual cycle)		
Controlling body temperature, water, and ion content		
Inheritance, Variation, and Evolution		
DNA, genes, and chromosomes		
Inheritance (dominant, recessive traits, Punnett squares)		
Evolution, natural selection, and genetic engineering		
Ecology		
Levels of organisation (producers, consumers)		
Adaptations, interdependence, and competition		
Biodiversity, ecosystems, and human impact (e.g., pollution,		
deforestation)		
Chemistry		
Atomic Structure and the Periodic Table		
Subatomic particles (protons, neutrons, electrons)		
Development of the periodic table		
Group 1, Group 7, Group 0 elements (alkali metals, halogens,		
noble gases)		
Bonding, Structure, and Properties of Matter		
Ionic, covalent, and metallic bonding		
Properties of giant covalent structures (e.g., diamond, graphite)		
States of matter and changing states		
Quantitative Chemistry		
Relative formula mass (Mr)		
The mole and calculations involving moles		
Conservation of mass, balancing equations		
Chemical Changes		
Reactivity series of metals		
Acids, alkalis, and neutralisation (pH scale)		
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Flootrolygic (of molton and aguagus colutions)	
Electrolysis (of molten and aqueous solutions)	
Energy Changes	
Exothermic and endothermic reactions	
Reaction profiles and bond energy calculations	
The Rate and Extent of Chemical Change	
Factors affecting rate (temperature, concentration, surface	
area, catalysts)	
Reversible reactions and dynamic equilibrium	
Organic Chemistry	
Hydrocarbons (alkanes and alkenes)	
Crude oil, fractional distillation, and cracking	
Polymers (addition polymerisation)	
Chemical Analysis	
Pure substances and formulations	
Chromatography	
Identification of ions (tests for gases, flame tests)	
Chemistry of the Atmosphere	
Composition of the Earth's atmosphere (past and present)	
Greenhouse gases, climate change, carbon footprint	
Pollutants from combustion	
Using Resources	
Finite and renewable resources	
Water treatment	
Life cycle assessments, reducing waste	
Physics	
Energy	
Energy stores and transfers	
Kinetic and potential energy calculations	
Efficiency and energy resources (renewable and non-	
renewable)	
Electricity	
Circuit symbols and diagrams	
Current, voltage, resistance (Ohm's Law)	
Series and parallel circuits	
Particle Model of Matter	
Density of materials	
Changes of state (melting, boiling)	
Internal energy and specific heat capacity	
Atomic Structure	
Structure of the atom	
Radioactivity (types of radiation, half-life, nuclear fission,	
fusion)	
Forces	
Contact and non-contact forces	
Resultant forces and vector diagrams	
Motion (speed, velocity, acceleration, distance-time graphs)	
Newton's laws of motion	
Momentum, forces, and braking distance	
Waves	
Properties of waves (frequency, wavelength, amplitude)	
Transverse and longitudinal waves	

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Electromagnetic spectrum (uses and dangers)	
Sound waves and ultrasound	
Magnetism and Electromagnetism	
Magnetic fields and electromagnets	
Motors and generators	
The motor effect	