



COMBINED SCIENCE- BIOLOGY REVISION CHECKLIST

Paper 1 Topics	RAG Rating			To Improve I Can...
*Plant and Animal Cells				
*Types of Cell				
*Microscopes/ Magnification				
*Enzymes/ Factors Affecting Enzymes/ Uses				
*Diffusion in/ out of cells				
*Osmosis				
Mitosis				
Growth/ Differentiation				
Stem Cells				
Neurones				
Meiosis				
DNA Structure				
Inheritance				
Variation/ Mutations/ Human Genome Project				
Classification/ Evolution				
Selective Breeding				
Genetic Engineering				
Health and Disease/ Pathogens				
Spread of Disease				
Human Defences/ Immunity				
Immunisation				
Medicines/ Treating Disease				
Non-Communicable Diseases				
Alcohol/ Smoking				
Malnutrition/ Obesity				
Cardiovascular Disease				

All Marked with an * appear in both papers



COMBINED SCIENCE- BIOLOGY REVISION CHECKLIST

Paper 2 Topics	RAG Rating			To Improve I Can...
*Plant and Animal Cells				
*Types of Cell				
*Microscopes/ Magnification				
*Enzymes/ Factors Affecting Enzymes/ Uses				
*Diffusion in/ out of cells				
*Osmosis				
Photosynthesis				
Specialised Plant Cells				
Transpiration				
Translocation				
Water Uptake in Roots				
Hormones				
Adrenalin/ Thyroxine				
Sex Hormones/ Menstrual Cycle/ IVF				
Blood Sugar Control/ Diabetes				
Exchanging Materials				
Gaseous Exchange/ Alveoli				
Blood/ Blood Vessels				
The Heart				
Aerobic/ Anaerobic Respiration				
Ecosystems				
Biotic/ Abiotic Factors				
Parasites/ Mutualism				
Sampling Techniques				
Human effect on Ecosystems				
Biodiversity				
The Carbon Cycle				
The Nitrogen Cycle				
The Water Cycle				

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COMBINED SCIENCE- CHEMISTRY REVISION CHECKLIST

Paper 1 Topics	RAG Rating			To Improve I Can...
*Formulae/ Equations				
*Hazards and Risks				
*Atomic Structure/ Isotopes				
*Periodic Table/ Mendeleev's Table				
*Electron Configuration				
*Ions/ Ionic compounds				
*Covalent bonding/ Covalent substances				
*Metallic bonding/ other structures				
*Limitations of models				
*Relative Formula mass/ Empirical Formulae				
*Conservation of Mass/ Reacting Mass Calculations				
*Concentration of Solutions/ Avogadro Constant				
States of Matter				
Pure Substances/ Mixtures				
Filtration/ Distillation/ Crystallisation				
Chromatography				
Drinking Water				
Acids/ Alkalis				
Neutralisation/ Making Salts				
Electrolysis				
Metal Reactivity Series/ Displacement Reactions				
Metal Ores/ Iron/Aluminium				
Biological Metal Extraction				
Recycling Metals/ Life Cycle Assessment				
The Haber Process				
Equilibria				

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COMBINED SCIENCE- CHEMISTRY REVISION CHECKLIST

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*Atomic Structure/ Isotopes				
*Periodic Table/ Mendeleev's Table				
*Electron Configuration				
*Ions/ Ionic compounds				
*Covalent bonding/ Covalent substances				
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*Limitations of models				
*Relative Formula mass/ Empirical Formulae				
*Conservation of Mass/ Reacting Mass Calculations				
*Concentration of Solutions/ Avogadro Constant				
Alkali Metals				
Halogens + their Reactions				
Noble Gases				
Rates of Reaction				
Heat Energy Changes/ Reaction Profiles				
Calculating Energy Changes				
Crude Oil				
Fractional Distillation				
Alkanes				
Incomplete Combustion				
Acid rain/Pollution				
Choosing Fuels				
Cracking				
Early Atmosphere				
Greenhouse Effect/ Climate Change				

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COMBINED SCIENCE- PHYSICS REVISION CHECKLIST

Paper 1 Topics	RAG Rating			To Improve I Can...
*SI Units				
*Multiples/ Standard Form				
Scalars and Vectors				
Speed/Distance/Time				
Equations of Motion				
Velocity/ Time Graphs				
Using Light Gates				
Newton's 1 st and 2 nd Laws				
Weight + Mass				
Force + Acceleration				
Circular Motion				
Momentum				
Newton's 3 rd Law				
Human Reaction Times				
Stopping Distances				
Energy Stores/ Transfers/ Efficient Transfers				
Energy Resources/ Patterns of Energy Use				
Potential/ Kinetic Energy				
Waves/ Measurements/ Calculations				
Waves at Boundaries				
EM Spectrum				
Uses/ Dangers of EM Waves				
Atomic Structure/ Models/ Isotopes				
Electrons/ Ions/ Ionising Radiation				
Background Radiation/ Measuring Radioactivity				
Beta Decay				
Radioactive Decay/ Half Life				
Contamination/ Irradiation				

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COMBINED SCIENCE- PHYSICS REVISION CHECKLIST

Paper 2 Topics	RAG Rating			To Improve I Can...
*SI Units				
*Multiples/ Standard Form				
Work/ Energy/ Power				
Interacting Forces/ Force Diagrams/ Resultant Forces				
Circuit Symbols				
Series/ Parallel Circuits				
Current + Charge				
Energy + Charge				
Ohms Law/ Resistors/ Thermistors				
Current Heating Effect				
Energy + Power				
A.C. and D.C. Circuits				
Mains Electricity/ Plugs				
Magnets/ Magnetic Fields				
Magnetism + Current				
Magnetic Forces/ Motor Effect				
Electromagnetic Induction				
Transformers				
Transmitting Electricity				
Energy/ Specific Heat Capacity				
Changes of State/ Specific Latent Heat				
Density				
Pressure + Temperature				
Elastic/ Inelastic Materials				
Springs/ Forces on Springs				

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