

Revision Check List – Exams November 17

Your exams will be testing all of your work from year 9 and 10, and up to the exams. The list below is an indication of the general topics that will be assessed. Use your books, revision guides and Collins online (e.g. end of chapter progress checklists) to help you. Producing your own revision notes and mind maps can help with revision, and you can also use resources like Bitesize and Collins which have quizzes to check your understanding. If revision is done thoroughly now, you will find that revision in the summer is much easier – so get to it!!

Biology

Cells	Structure, specialised cells, transport of substances, cell division, cancer, use of microscopes and magnification
Respiration	Aerobic, anaerobic, circulation, heart, effect of exercise, blood
Infection and response	Pathogens, antibiotics, vaccines,
Digestion	System, enzymes
Photosynthesis	Process, limiting factors, nutrients for plant growth

Chemistry

Acids and alkalis	pH, neutralisation reactions, making salts, reactivity of metals, strong and weak acids
Energy changes	Exothermic and endothermic reactions, reaction profiles, bond energies
Periodic table	History of development, models of the atom, sizes of atoms, elements and compounds, mass and atomic number, patterns of reactivity in the periodic table, isotopes
Bonding	Types (ionic, covalent, metallic, giant molecular), properties of materials with each type of bonding, changes of state
Chemical changes	Displacement reactions, oxidation and reduction, electrolysis – products, process
Chemical quantities	Moles, molar mass, % mass

Physics

Electricity	Mains electricity, National grid, circuits (series and parallel), resistance, resistance graphs for components
Atoms and radiation	Development of the model of the atom, radiation types and properties, medical imaging, contamination and irradiation
Energy	Specific heat capacity (including the required practical), changes of state – particle movement and energy, latent heat, gas pressure, efficiency, calculations of kinetic and gravitational potential energy, power, energy types and effect on environment e.g. greenhouse gases
Density	Calculations