

## Year 11 Science Mock Exams November 2018 Revision list

| Biology   | Chemistry   | Physics  |
|---|---|--|
| Cell structure, function, transport (osmosis, diffusion, active transport) exchange surfaces and mitosis. | Atoms, elements, compounds, electronic structure, history of the atom and periodic table, metals and non-metals, Group 1,7 and 0 elements, mixtures and separation techniques | Energy stores and systems, kinetic and potential energy, specific heat capacity, conservation of energy, energy transfer, power, efficiency, renewable and non-renewable energy sources, Bio fuels, trends in energy resource use. |
| Enzymes and digestion, Lungs, Heart, non-communicable disease, cancer, plant structure and transpiration. | Ionic bonding, covalent bonding, polymers and giant covalent structures, allotropes, metallic bonding, states of matter.  | Current and circuit symbols, resistance, circuit devices, series and parallel circuits, electricity in the home and appliances, power and the National Grid.   |
| Communicable disease, pathogens, vaccination and developing drugs.  | Relative formula mass, Moles (HT), conservation of mass, concentration of solutions.  | Particle model and motion in gases, density of materials, internal energy and change in state, specific latent heat.   |
| Photosynthesis, aerobic and anaerobic respiration, metabolism and exercise.                               | Acids and bases, reactivity series, extracting metals, reactions of metals and electrolysis.  | Model of the atom, isotopes and nuclear radiation, nuclear equations, half-life, irradiation and contamination   |
|   | Exo and endothermic reactions, measuring energy change, rates of reaction, calculating rates of reaction and reversible reactions.  |  |