Subject	Year 9		
Review	Review 1	Review 2	Review 3
Content covered	**Biology:** B1.2 Cells & cell structure. B1.3 Eukaryotes / prokaryotes. B1.1 Observing animal & plant cells B1.3-4 Specialised cells. B2.2 Differentiation. B1.1 Microscopes – magnification. B5. 3 Aseptic theory B5.4 Aseptic practical lesson. B13.4 (some) Chromosomes. **Chemistry** C1.1 Atoms, elements and compounds C1.2a Chemical equations C1.2b Chemical equations C1.3 Separating mixtures C1.4 Fractional distillation and paper chromatography C1.5 History of the atom C1.6 Structure of the atom C1.7 Ions, atoms and isotopes C1.8 Electronic configuration **Physics:** **P1 Conservation & dissipation of Energy** P1 Conservation & dissipation of Energy P1.1 Changes in energy stores P1.2 Conservation of energy P1.3 Energy and work P1.4 Gravitational potential energy stores P1.5 Kinetic energy and elastic energy stores P1.6 Energy dissipation P1.7 Energy and efficiency P1.8 Electrical appliances P1.9 Energy and power	**All previous topics plus:** **Biology:** Extraction of DNA B2.2 Mitosis. B2.3 Stem cells / ethics. B1.6 Diffusion (rest of transport in Y10). B3.1 Cell to tissue to system. B3.3 Food tests – required practical. B3.4-5 Enzymes & temperature. B3.6 Bile. B4.3 Heart structure. B4.5 Heart & lungs. B4.2 Blood vessels B4.1 Blood. B4.4 CHD. B5.1 Health & what affects it. B7.1 Cancer. B4.6 Leaf structure. **Chemistry:** C2.1 Development of the periodic table C2.2 Electronic configuration and the periodic table C2.3 Group 1 – the alkali metals C2.4 – the halogens C2.5 Explaining the trends C3.1 States of matter C3.2 Atoms into ions C3.3 Ionic bonding C3.4 Giant ionic structures **Physics:** **P2 Energy transfer by heating** P2.1 Energy transfer by conduction P2.4 Specific heat capacity P2.5 Heating and insulating buildings **P3 Energy resources** P3.1 Energy demands P3.2 Energy from wind and water P3.3 Power from the Sun and the Earth P3.4 Energy and the environment P3.5 Big energy issues	**All previous tropics plus:** **Biology:** B4.6 Specialised plant cells & tissues. B4.7 Transpiration B5.2 Communicable diseases. B5.3 Culturing microorganisms (if not done in cells). B5.6 – 7 Viral & bacterial diseases. B5.8 Malaria. B5.9 Human defence systems. B6.1 Vaccination. B6.2 Antibiotics / antibiotic resistance. B6.3 Types of drugs. B6.4 Discovery & development of drugs. B7.3 Smoking. B7.4 Diet & exercise. B7.5 Alcohol. **Chemistry:** C3.5 Covalent bonding C3.6 Simple covalent structures C3.7 Giant covalent structures C3.8 fullerenes and graphene C3.9 Metallic bonding C3.10 Metallic structures C5.1 Reactivity series C5.2 Displacement reactions C5.3 Extracting metals C5.4 Salts from metals C5.5 Salts from insoluble bases C5.7 Making more salts C5.8 Neutralisation and the pH scale C5.9 Strong and weak acids **Physics:** **P4 Electric circuits** P4.2 Current and charge P4.3 Potential difference and resistance P4.4 Component characteristics P4.4 Component characteristics continued P4.5 Series circuits P4.6 Parallel circuits **P5 Electricity in the Home** P5.1 Alternating current P5.2 Cables and plugs P5.3 Electrical power and potential difference P5.4 Electrical currents and energy transfer

Assessment method	3x 45 min written exam papers (one for each science) based on the topics covered. Calculator required. All students sit the same paper tier paper (mixture of Foundation and Higher questions).	3x 45 min written exam papers (one for each science) based on the topics covered. Calculator required. All students sit the same paper tier paper (mixture of Foundation and Higher questions).	3x 45 min written exam papers (one for each science) based on the topics covered. Calculator required. All students sit the same paper tier paper (mixture of Foundation and Higher questions).
Teacher & Dept response	Students will get an actual GCSE grade from these papers so will be able to see their own progress and their areas for improvement. Students will go through their assessments making the necessary corrections and completing a www/ebi and next steps task to show progress made. Students identified as underachieving will be closely monitored in class based on regular mini assessments and will get extra support from their class teacher. CL will be aware of those having underachieved and raised concerns with class teacher.	Students will get an actual GCSE grade from these papers so will be able to see their own progress and their areas for improvement. Students will go through their assessments making the necessary corrections and completing a www/ebi and next steps task to show progress made. Students that continue to underachieve will have discussions with class teacher and CL. Class teacher to monitor their attendance and progress in lessons.	Students will get an actual GCSE grade from these papers so will be able to see their own progress and their areas for improvement. Students will go through their assessments making the necessary corrections and completing a www/ebi and next steps task to show progress made. CL to raise concerns of continued underachievement to Pastoral team and parents. Highlighted as a priority for interventions in Year 11.