Subject	Year 10		
Review	1	2	3
Content covered	**Biology:** **All previous tropics plus:** **Review 1** B8.1 Photosynthesis (taught in Y9) B8.2 The rate of photosynthesis B8.3 How plants use glucose. B8.4 Making the most of photosynthesis. B9.1 Aerobic respiration. B9.2 The response to exercise. B9.3 Anaerobic respiration. **Chemistry:** C3.1 States of matter C3.2 Atoms into ions C3.3 Ionic bonding C3.4 Giant ionic structures C3.5 Covalent bonding C3.6 Simple covalent structures C3.7 Giant covalent structures C3.8 fullerenes and graphene **Physics:** **P6 Molecules and matter** P6.1 Density P6.2 States of matter P6.3 Changes of state P6.4 Internal energy P6.5 Specific latent heat P6.6 Gas pressure and temperature **P7 Radioactivity** P7.1 Atoms and radiation P7.2 The discovery of the nucleus P7.3 Changes in the nucleus P7.4 More about alpha, beta, and gamma radiation P7.5 Activity and half-life	**Biology:** **All previous tropics plus:** **Review 2** B1.6 (recap) Diffusion. B1.7 Osmosis. B1.8 Osmosis in plants. B1.9 Active transport. B1.10 Exchanging materials (eg recap lungs from Y9). B10.1 Principles of homeostasis. B10.2 The structure of the nervous system. B10.3 Reflex actions. B11.1 Principles of hormonal control. B11.2 The control of glucose levels. B11.3 Treating diabetes. B11.4 The role of negative feedback (H only). B11.5 Human reproduction. B11.6 Hormones & the menstrual cycle. B11.7 The artificial control of fertility. B11.8 Infertility treatments. **Chemistry:** C3.9 Metallic bonding C3.10 Metallic structures C4.1 Relative masses and moles C4.6 Expressing concentrations C7.1 Exothermic and endothermic reactions C7.2 Using energy transfers from reactions C7.3 Reaction profiles C7.4 Bond energy calculations **Physics:** **P8 Forces in balance** P8.1 Vectors and scalars P8.2 Forces between objects P8.3 Resultant forces P8.6 Centre of mass P8.8 The parallelogram of forces (HT) P8.9 Resolution of forces (HT) **P9 Motion**	**Review 3** **Biology:** **AQA Paper 1 covering the whole of the following topics covered in Y9-10:** 1. Cells & organisation B1-B4 2. Diseases & bioenergetics B5-9. **Chemistry:** **All previous topics plus** C8.1 Rate of reaction C8.2 Collision theory and surface area C8.3 The effect of temperature C8.4 The effect of concentration/pressure C8.5 The effect of catalysts C8.6 Reversible reactions C8.7 Energy and reversible reactions C8.8 Dynamic equilibrium C8.9 Altering conditions C6.1 Introduction to electrolysis C6.2 changes at the electrodes **Physics:** **P10 Force and motion** P10.1 Forces and acceleration P10.2 Weight and terminal velocity P10.3 Forces and breaking P10.4 Momentum (HT) P10.8 Forces and elasticity **P12 Wave Properties** P12.1 The nature of waves P12.2 The properties of waves P12.3 Reflection and refraction (HT) P12.4 More about waves

		P9.1 Speed and distance–time graphs P9.2 Velocity and acceleration P9.3 More about velocity–time graphs P9.4 Analysing motion graphs	
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.