Separate Sciences

Guide to the exams (first sitting June 2018)

General Information

- Students will sit 2 exams in each science (Biology, Chemistry & Physics).
- Each exam will be 1hr 45 minutes long and worth 100 marks.
- They are worth 50% of the grade for each science.
- Question types include: Multiple choice, structured, closed short answer and open response.
- Each exam is available in both foundation and higher tier. Foundation level offers simpler exam questions that can lead to a maximum grade of a 6. Higher level with more demanding exams that allow access to the highest levels.

Exams

	Paper 1	Paper 2	
Biology	**Topics 1–4:** Cell biology; Organisation; Infection and response; and Bioenergetics.	**Topics 5–7:** Homeostasis and response; Inheritance, variation and evolution; and Ecology.	**1 GCSE in Biology**
Chemistry	**Topics 1–5**: Atomic structure and the periodic table; Bonding, structure, and the properties of matter; Quantitative chemistry, Chemical changes; and Energy changes.	**Topics 6–10:** The rate and extent of chemical change; Organic chemistry; Chemical analysis, Chemistry of the atmosphere; and Using resources.	**1 GCSE in Chemistry**
Physics	**Topics 1-4:** Energy; Electricity; Particle model of matter; and Atomic structure.	**Topics 5-8:** Forces; Waves; Magnetism and electromagnetism; and Space physics.	**1 GCSE in Physics**

Required Practical

Please note there is no coursework. 100% of marks are gained from the exam.

Students are required to complete required practicals (RPs) throughout the year, and can be tested on any of these in their exam. Additionally the exam board may ask to see evidence of students completing these. It is therefore imperative that students complete these and make every effort to catch up should they be absent for any reason.

Biology Practicals	Chemistry Practicals	Physics Practicals
RP 1 - Microscopy	RP 1 - Making salts	RP 1 - Specific heat capacity
RP 2 - Microbiology	RP 2 - Neutralisation	RP 2 - Thermal insulation
RP 3 - Osmosis	RP 3- Electrolysis	RP 3 - Resistance
RP 4 - Enzymes	RP 4- Temperature changes	RP 4 - I-V characteristics
RP 5 - Food tests	RP 5 - Rates of reaction	RP 5 - Density
RP 6 - Photosynthesis	RP 6 - Chromatography	RP 6 - Light
RP 7 - Reaction time	RP 7 - Identifying ions	RP 7 - Force and extension
RP 8 - Germination	RP 8 - Water purification	RP 8 - Accelaration
RP 9 - Field investigations	RP 9 - Making salts	RP 9 - Waves
RP 10 - Decay	RP 10 - Neutralisation	RP 10 - Radiation and absorption