YEAR 12

TERM 1 - AS		TERM 2 - AS	TERM 3 - A2	
• **Biological Molecules** 3.1.1 Monomers and polymers 3.1.2 Carbohydrates 3.1.3 Lipids 3.1.4 Proteins CORE PRAC 1 3.1.5 Nucleic acids are important information-carrying molecules 3.1.6 ATP 3.1.7 Water 3.1.8 Inorganic ions	• **Cells** 3.2.1 Cell structure 3.2.2 All cells arise from other cells CORE PRAC 2 3.2.3 Transport across cell membranes CORE PRAC 3 CORE PRAC 4 3.2.4 Cell recognition and the immune system	**Organisms Exchange Substances with the Environment** 3.3.1 Surface area to volume ratio 3.3.2 Gas exchange 3.3.3 Digestion and absorption 3.3.4 Mass transport CORE PRAC 5	**Genetic information, variation and relationships between organisms** 3.4.1 DNA, genes and chromosomes 3.4.2 DNA and protein synthesis 3.4.3 Genetic diversity can arise as a result of mutation or during meiosis 3.4.4 Genetic diversity and adaptation CORE PRAC 6 3.4.5 Species and taxonomy 3.4.6 Biodiversity within a community 3.4.7 Investigating diversity	**Energy transfers in and between organisms** 3.5.1 Photosynthesis CORE PRAC 7 CORE PRAC 8 3.5.2 Respiration CORE PRAC 9 3.5.3 Energy and ecosystems 3.5.4 Nutrient cycles

How we support learning:

Students are encouraged and expected to be independent learners and will be given guidance to achieve this.

- Students will be given homework on a regular basis in order to promote practice of exam technique
- Misconceptions will be addressed during lessons and corrected
- Students are encouraged to make use of many available resources, including seeking help from their teacher during lesson time and breaks
- Homework and exams will be marked on a regular basis to track progress

How parents can support learning

- Support homework activities
- Promote study at home (which can exceed 6 hours a week depending on the topic) and provide a suitable environment for independent study as well as a place to sit practice exams once revision has started.
- Take an interest in your daughter's progress and the individual feedback she receives