**HSC Biology 2023-2024**

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| **Component** | | **Task 1** | | **Task 2** | | **Task 3** | | **Task 4** | |
| **Nature of tasks** | | **First Hand Investigation** | | **Depth Study** | | **Research Task** | | **Trial Examination** | |
| **Timing** | | Term 4  Week 8 | | Term 1  Week 9 | | Term 2  Week 7 | | Term 3  Weeks 4-5 | |
| **Outcomes assessed** | | BIO11/12-4 BIO11/12-5  BIO11/12-6  BIO11/12-7 BIO12-12 | | BIO11/12-1  BIO11/12-3 BIO11/12-6  BIO11/12-7  BIO12-13 | | BIO11/12-1  BIO11/12-2  BIO11/12-3  BIO12-8  BIO12-9  BIO12-10  BIO12-14 | | BIO11/12-4  BIO11/12-5 BIO11/12-6 BIO11/12-7 BIO12-8  BIO12-9  BIO12-10  BIO12-11 | |
| **Weighting %** | **15%** | | **30%** | | **20%** | | **35%** | | **100%** |
| Skills in Working Scientifically | 10% | | 20% | | 10% | | 20% | | **60%** |
| Knowledge and Understanding | 5% | | 10% | | 10% | | 15% | | **40%** |

**Knowledge and Understanding**

BIO12-12 explains the structures of DNA and analyses the mechanisms of inheritance and how processes of reproduction ensure continuity of species BIO12-12

BIO12-13 explains natural genetic change and the use of genetic technologies to induce genetic change

BIO12-14 analyses infectious disease in terms of cause, transmission, management and the organism’s response, including the human immune system

BIO12-15 explains non-infectious disease and disorders and a range of technologies and methods used to assist, control, prevent and treat non-infectious disease

**Skills in Working Scientifically**

BIO11/12-1 develops and evaluates questions and hypotheses for scientific investigation

BIO11/12-2 designs and evaluates investigations in order to obtain primary and secondary data and information

BIO11/12-3 conducts investigations to collect valid and reliable primary and secondary data and information

BIO11/12-4 selects and processes appropriate qualitative and quantitative data and information using a range of appropriate media

BIO11/12-5 analyses and evaluates primary and secondary data and information

BIO11/12-6 solves scientific problems using primary and secondary data, critical thinking skills and scientific processes

BIO11/12-7 communicates scientific understanding using suitable language and terminology for a specific audience or purpose

\* BIO 11/12-1 Questioning & Predicting & CH 11/12-7 Communicating must be assessed in the depth study along with two other Working Scientifically outcomes and at least one Knowledge & Understanding outcome.

Underline text: indicates Knowledge & Understanding outcomes