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# Sample Scope and Sequence: Biology – Year 12

***Sample for implementation for Year 12 from Term 4, 2018***

The following model illustrates the inclusion of:

* Two Depth Studies: 5 hours in Module 6 and 10 hours for a Depth Study of a negotiated topic.

| **Term 4** | **Week 1** | **Week 2** | **Week 3** | **Week 4** | **Week 5** | **Week 6** | **Week 7** | **Week 8** | **Week 9** | **Week 10** |
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| **Ways to Reproduce – integrating elements of Modules 5, 6 and 8**  Students investigate reproductive methods and technologies in both plants and animals. They explore contemporary research in various fields including agriculture, industry and medicine.  Students engage with the study of cancer as a non-infectious disease including its causes and effects on human health. | | | | | | | | **Module 6: Genetic Change** | |
| **Assessment Task 1:** Research and report – ‘How does reproduction ensure the continuation of a species?’ | | | | | | | | **Depth Study 1:** 5 hours | |
| BIO11/12-2, BIO11/12-3, BIO11/12-4, BIO11/12-5, BIO11/12-6, BIO11/12-7, BIO12-12, BIO12-13, BIO12-15 | | | | | | | |  | |

| **Term 1** | **Week 1** | **Week 2** | **Week 3** | **Week 4** | **Week 5** | **Week 6** | **Week 7** | **Week 8** | **Week 9** | **Week 10** |
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| **Module 6: Genetic Change**  Students investigate genetic change, including mutations, environmental pressure and uses of biotechnology. | | | | | | **Module 7: Infectious Disease**  Students examine the treatment, prevention and control of infectious diseases. | | | |
| **Assessment Task 2:** Depth Study – Role of developmental genes in evolution. | | | | | |  | | | |
| BIO11/12-1, BIO11/12-3, BIO11/12-4, BIO11/12-5, BIO11/12-6, BIO11/12-7, BIO12-13 | | | | | |  | | | |

| **Term 2** | **Week 1** | **Week 2** | **Week 3** | **Week 4** | **Week 5** | **Week 6** | **Week 7** | **Week 8** | **Week 9** | **Week 10** |
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| **Module 7: Infectious Disease**  Students investigate the role of the human immune system and its response to infection. | | | | | | **Module 8: Non-infectious Disease and Disorders**  Students investigate non-infectious diseases and disorders including their causes and effects on human health. | | | |
| **Assessment Task 3**: Practical investigation – Plan and conduct a practical investigation relating to the microbial testing of water or food samples. | | | | | |  | | | |
| BIO11/12-1, BIO11/12-2, BIO11/12-3, BIO11/12-4, BIO12-14 | | | | | | BIO11/12-5, BIO11/12-6, BIO11/12-7, BIO12-15 | | | |

| **Term 3** | **Week 1** | **Week 2** | **Week 3** | **Week 4** | **Week 5** | **Week 6** | **Week 7** | **Week 8** | **Week 9** | **Week 10** |
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| **Depth Study 2:** 10 hours  Students choose a topic they wish to study in depth. The study focuses on the analysis of data. | | | **Module 8: Non-infectious Disease and Disorders**  Students examine technologies and their uses in treating disease and disorders as well as the epidemiology of non-infectious disease in populations. | | | | | | |
| **Assessment Task 4:** Data analysis. | | |  | | | | | | |
| BIO11/12-1, BIO11/12-5, BIO11/12-6, BIO11/12-7,  BIO12-12, BIO12-13, BIO12-14, BIO12-15 | | |  | | | | | | |