**Sample Scope and Sequence**: **Investigating Science – Year 12**

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

| **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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| **Module 5: Scientific Investigations**  Practical Investigations to Obtain Primary Data, Different Types of Scientific Investigations.  Students examine investigations of scientists to determine the design, methods and data-collection techniques used. | | | | | | | **Introduction to Depth Study 1**  **(3 hours)** | | **Module 5: Scientific Investigations**  Student Investigation, Reliability and Validity, Reporting.  Students design, conduct and collect data of their own valid and reliable investigation and examine appropriate way of reporting their findings. | | | | | | | | | **Depth Study 1**  **(4 hours)** |
| INS11/12-1, INS11/12-2, INS11/12-3, INS11/12-4, INS11/12-5, INS11/12-7, INS12-12 | | | | | | | | | | | | | | | | | | |
| **Term 1** | **Week 1** | | **Week 2** | | **Week 3** | | **Week 4** | **Week 5** | | **Week 6** | **Week 7** | | | **Week 8** | | **Week 9** | | **Week 10** | |
| **Module 6: Technologies**  Scientific Investigation and Technology  Students use a range of both analogue and digital technologies to collect data and assess their effectiveness. | | | | | | | **Depth Study 2**  **(7 hours)** | | | **Module 6: Technologies**  A Continuous Cycle  Students examine how the development of technology has influenced advances in science and then further advanced technology. | | | | | | | | |
| INS11/12-1, INS11/12-2, INS11/12-3, INS11/12-4, INS11/12-7, INS12-13 | | | | | | | | | | | | | | | | | | |
| **Term 2** | **Week 1** | **Week 2** | | **Week 3** | | **Week 4** | | **Week 5** | | **Week 6** | **Week 7** | | **Week 8** | | **Week 9** | | **Week 10** | | |
| **Module 8: Science and Society**  Incidents, Events and Science, Regulation of Scientific Research  Students examine how scientific issues are perceived by the public and the regulations that oversee scientific practices. | | | | | | | | | **Module 8: Science and Society**  Influence of Economic, Social and Political Forces on Scientific Research  Students examine how societal pressures influence areas of scientific study and the interpretation of data. | | | | | | | | | |
| **Depth Study 3 (8 hours) integrated within Module 8** | | | | | | | | | | | | | | | | | | |
| INS11/12-1, INS11/12-3, INS11/12-5, INS11/12-6, INS11/12-7, INS12-15 | | | | | | | | | | | | | | | | | | |
| **Term 3** | **Week 1** | **Week 2** | | **Week 3** | | **Week 4** | | **Week 5** | **Week 6** | | **Week 7** | | **Week 8** | | **Week 9** | | **Week 10** | | |
| **Module 7: Fact or Fallacy?**  Testing Claims, Impacts on Investigations, Evidence-based Analysis  Students evaluate their own and other investigations to examine possible sources of error and misinterpretations of data. | | | | | | | | **Module 7: Fact or Fallacy?**  Reading Between the Lines, Science as Self-correcting – the Issues  Students examine the influences on public perceptions of science and the processes of peer review that can result in misrepresented and/or falsified information. | | | | | | | | | | |
| **Depth Study 4 (8 hours) integrated within Module 7** | | | | | | | |  | | | | | | | | | | |
| INS11/12-1, INS11/12-2, INS11/12-3, INS11/12-4, INS11/12-5, INS11/12-6, INS11/12-7, INS12-12, INS12-13, INS12-14, INS12-15 | | | | | | | | | | | | | | | | | | |