**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 ResearchStudents 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 |