# Sample Scope and Sequence: Investigating Science Year 11

# *Sample for implementation for Year 11 from 2018*

| **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 1:****Cause and Effect – Observing** | | | | | | **Module 2:Cause and Effect – Inferences and generalisations** | | | |
| Role of observations; Observations. | | | Observations as evidence; Observing, Collecting and Recording Data; Conclusions promote further observation. | | | Observations and Inferences;  Using Secondary-sourced Data; Observing Patterns. | | |  |
| **Depth Study 1:** Design, conduct and report on an investigation based on a specific observation. 20 hours – integrated with modules 1 and 2. | | | | | | | | | |
| INS11/12-1, INS11/12-2, INS11/12-3, INS11/12-4, INS11/12-5, INS11/12-7, INS11-8 | | | | | | INS11/12-1, INS11/12-2, INS11/12-3, INS11/12-4, INS11/12-5, INS11/12-7, INS11-9 | | | |

| **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 2:** **Cause and Effect – Inferences and generalisations** | | | | **Depth Study 2:** How have scientific understandings changed over time? 10 hours | | | **Module 3:Scientific Models** | | |
| Developing Inquiry Questions; Generalisations in Science; Peer Review | | | | Research Task and presentation | | | Models to Inform Understanding; Types of Models; Constructing Models | | |
|  | | | | INS11/12-1, INS11/12-4, INS11/12-5, INS11/12-6, INS11/12-7, INS11-8, INS11-9 | | | INS11/12-2, INS11/12-3, INS11/12-4, INS11-10 | | |

| **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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| **Module 3:****Scientific Models** | | **Module 4:Theories and Laws** | | | | | | | |
| Models to Inform Understanding; Types of Models; Constructing Models. | | Introduction to Scientific Theories and Laws; Development of a Theory; Development of Laws; Application of Laws and Theories in Science. | | | | | | | |
| INS11/12-2, INS11/12-3, INS11/12-4, INS11-10 | | INS11/12-4, INS11/12-5, INS11/12-6, INS11/12-7, INS11-8, INS11-9, INS11-10, INS11-11 | | | | | | | |