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**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; Collecting and Recording Data; Conclusions promote further Observations | | | **Depth Study 1**  (10 hours) | | |  | |
| Equipment for experiments which allow students to gather qualitative and quantitative data;student access to text on historical examples of observation of cause and effect; text on examples of Aboriginal and Torres Strait Islander people using observations to create understanding. | | | | | | | | |  | |
| INS11/12-1, INS11/12-3, INS11/12-4, INS11/12-7, INS11-8 | | | | | | | | |  | |

| **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** | | | | | | | **Module 3:** **Scientific Models** | | |
| Observations and Inferences; Using Secondary-sourced Data; Observing Patterns | | Developing Inquiry Questions; Generalisations in Science; Peer Review | | **Depth Study 2**  (10 hours) | | | **Description:** Models to Inform Understanding; Types of Models | | |
| Equipment for experiments which allow students to collect data, make inferences and test hypotheses, particularly for specified investigations; text on Aboriginal and Torres Strait Islander peoples making observations and inferences; access to secondary sources. | | | | | | | Access to a variety of models or information relating to a variety of models. | | |
| INS11/12-1, INS11/12-2, INS11/12-4, INS11/12-7, 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** | | | | | |
| Constructing a Model | | | **Depth Study 3**  (10 hours – integrated across Modules 3 and 4) | | | Development of Laws; Application of Laws, and Theories in Science. | | | |
| Access to information, materials and technologies which allows students to investigate a scientific concept or process that can be represented by a model. | | | | Access to information on syllabus-identified theories and laws and information that extends on these. Equipment for experiments to allow the collection of primary data.Access to secondary sources to investigate and assess the supporting information and development of laws equipment to conduct experiments to investigate and assess the syllabus-identified laws and others. | | | | | |
| INS11/12-1, INS11/12-2, INS11/12-3, INS11/12-4, INS11/12-7, INS11-10 | | | | INS11/12-1, INS11/12-5, INS11/12-6, INS11/12-7, INS11-11 | | | | | |