# Sample Scope and Sequence: Chemistry – Year 11

***Sample for implementation for Year 11 from 2018***

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| **Term 1** | **Week 1** | **Week 2** | **Week 3** | **Week 4** | **Week 5** | **Week 6** | **Week 7** | **Week 8** | **Week 9** | **Week 10** |
| **Module 1: Properties and Structure of Matter**  Students investigate the fundamental chemical concepts about structure and bonding. Students design their own investigations and practice efficient information and data-collection strategies, as well as developing skills in communicating their findings using appropriate scientific language. | | | | | | | **Module 2: Introduction to Quantitative Chemistry**  Students examine the quantitative nature of chemistry. | | |
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| CH11/12-2, CH11/12-3, CH11/12-4, CH11/12-7, CH11-8 | | | | | | | CH11/12-2, CH11/12-4, CH11/12-6, CH11-9 | | |

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| **Term 2** | **Week 1** | **Week 2** | **Week 3** | **Week 4** | **Week 5** | | **Week 6** | **Week 7** | **Week 8** | **Week 9** | **Week 10** |
| **Module 2: Introduction to Quantitative Chemistry**  Students examine the quantitative nature of chemistry. | | | | | **Module 3: Reactive Chemistry**  Students investigate the basic reaction types in chemistry and the energy transformations that are associated with chemical changes, such as light and heat. The rate of chemical reactions and the factors that affect the rate are investigated. | | | | | |
| **Depth Study 1 (8 hours)** | | | | | **Depth Study 2 (7 hours)** | | | | | |
| CH11/12-2, CH11/12-3, CH11/12-4, CH11/12-6, CH11-9 | | | | | CH11/12-2, CH11/12-3, CH11/12-4, CH11-10 | | | | | |

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| **Term 3** | **Week 1** | **Week 2** | **Week 3** | **Week 4** | **Week 5** | **Week 6** | **Week 7** | **Week 8** | **Week 9** | **Week 10** |
| **Module 3: Reactive Chemistry** | | | | | **Module 4: Drivers of Reactions**  Students investigate the factors that initiate and drive a reaction. They will use mathematical models to predict the spontaneity of a reaction and the thermodynamic nature of chemical processes. | | | | |
| CH11/12-2, CH11/12-3, CH11/12-4, CH11-10 | | | | | CH11/12-1, CH11/12-5, CH11/12-6, CH11/12-7, CH11-11 | | | | |