**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 practise 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 are introduced to the quantitative nature of chemistry. | | |
| CH11/12-1*,* 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 are introduced to the quantitative nature of chemistry. | | | | **Depth Study (11 hours)**  Students will be assessed on their research of chemical technology | | | **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. | | |
| CH11/12-2, CH11/12-4, CH11/12-6, CH11-9 | | | | CH11/12-1, CH11/12-4, CH11/12-5, CH11/12-6, CH11/12-7, 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**  The rate of chemical reactions and the factors that affect the rate will be examined. | | | | **Depth Study**  **(4 hours)** | **Module 4: Drivers of Reactions**  Students investigate the factors that initiate and drive a reaction. They 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 | | | | | |