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| Subject | IB Chemistry SL/**HL** |
| HL / SL cohort | MIxed |
| Main Text book | Pearson Baccalaureate IB Chemistry SL or HL |

**Christmas Term**

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| Week | Topics covered | TOK | Connections | Recommended Extra Reading |
| 1 | Review of L6  Analysis of Mocks  7.1 Equilibrium  **17.1 The Equilibrium Law** | What ways of knowing do we use when moving from macroscopic to microscopic scales? |  |  |
| 2 | 8.1 Theories of acids and bases  **18.1 Lewis Acids and Bases** | To what extent can scales used in Science be considered arbitrary or artificial? |  |  |
| 3 | \*8.2 Properties of acids and bases  **18.2 Calculations involving Acids and Bases** | Can entrenched prior knowledge hinder our fuller understanding of new knowledge? |  |  |
| 4 | \*8.3 The pH Scale  8.4 Strong and weak acids and bases  **18.2 Calculations involving Acids and Bases** | Though all rain water is acidic, the term acid rain only applies to some rai water. Can language influence communication in science? |  |  |
| 5 | 8.4 Strong and weak acids and bases  **18.3 pH Curves**  8.5 Acid deposition |  |  |  |
| 6 | Assessment Week |  |  |  |
| 7 | 9.1 Oxidation and Reduction | What ways of knowing can we use to distinguish between the charge on an ion and the oxidation state? |  |  |
| 8 | 9.1 Oxidation and Reduction  \*9.2 & **19.1** Electrochemical Cells | Would using a different half cell as a standard for electrode potentials make a difference to the study of electrochemistry? |  |  |
| 9 | \*9.2 & **19.1** Electrochemical Cells |  |  |  |
| 10 | 10.1 Fundamentals of Organic Chemistry  **20.1 Types of Organic Reaction** | The word organic is used in different contexts beyond the chemistry of carbon compounds. Does this confuse or enhance communication? |  |  |
| 11 | 10.1 Fundamentals of Organic Chemistry  **20.1 Types of Organic Reaction** | To what extent is chemistry a separate language? What are the main differences between the language of chemistry and your mother tongue? |  |  |
| 12 | IA Preperation |  |  |  |
| 13 | Assessment Week |  |  |  |