

**STUDENT UNIT PLANNER**

**Year 10 Chemistry**

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| **Year Level:** | 10 | Student checklist: 🗹 when you know… |
| **Subject:**  | Science | [ ] Assessment due dates[ ] The learning goals and success criteria for this term [ ] Changes to routines e.g. excursions[ ] When assessment practice lessons will occur (exemplars)[ ] When revision lessons will occur |
| **Term/Year:** | 1 / 2024 |
| **Unit Title:**  | Genetics (Biology) + Chemistry |
| **Assessment:** | Exam |
| **Key Resource:**  | OneNote |
| **WK** | **Wk. Beg** | **Holidays or variations this week** | **Lesson 1** | **Lesson 2**  | **Lesson 3**  |
| T1 Wk7 | 4 Mar. 24 |  | **EXAM** | **Introduce Chemistry Unit****LG1- SC1, 2, 3*** Structure of the atom.
* Bohr model diagram.
 | **Structure of Periodic Table****LG2- SC4*** Identifying structure of the periodic table (groups and periods).
* Group names (grp 1,2,7,8).
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| T1 Wk8 | 11 Mar. 24 |  | **Periodic Table- Properties of Elements****LG2- SC5, 6, 7*** Analyse how the periodic table organises elements to predict the properties of an element.
 | **Chemical Reactions****LG3- SC8, 9, 10*** Define key terms used in chemical reactions and equations.
* Describe and list examples of the 5 main types of reactions.
 | **Chemical Reactions****LG3- SC8, 9, 10*** Describe and list examples of the 5 main types of reactions.
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| T1 W9 | 18 Mar. 24 |  | **Formation of Ions****LG3- SC10*** Describe the formation of ions (anions and cations).
* Predict chemical formulas using a table of ions.
 | **Chemical Formula****LG3- SC10*** (REVIEW)Predict chemical formulas using a table of ions.
 | **Balancing Equations****LG3- SC10*** Identify balanced equations.
* Justify the Law of Conservation of Mass by writing balanced equations.
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| T1 wk10 | 25 Mar. 24 | Good Friday29/3 | **Balancing Equations Cont.****LG3- SC10** * Justify the Law of Conservation of Mass by writing balanced equations.
 | **Reaction Rates****LG4- SC11, 12, 13*** Define key terms used in reaction rates.
* Identify and explain key factors that affect the rate of a reaction.
 | **Student Experiment Hand Out****LG5- SC14, 15, 16** |
| **T2 Wk1** | **15 Apr. 24** |  | **LG5, SC14, 15, SC16,****Handout Assignment – Student Experiment**Research and write rationaleDevelop a hypothesis  | **Assignment**Plan methodDo risk assessment | **LG5, SC14, 15, 16**Conduct Experiment |
| T2 Wk2 | 22 Apr. 24 | **Thurs 25th****ANZAC DAY** | **ANZAC****DAY** | **LG5, SC14, 15, 16**Conduct Experiment | **LG5, SC14, 15, 16**Conduct Experiment |
| T2 Wk3 | 29 Apr. 24 |  | **LG5, SC14, 15, 16**Collate and graph data. Identify sources of uncertainty and error. | **LG5, SC14, 15, 16**Analyse recorded data with explanation of sources of error | **LG5, SC14, 15, 16**Summarise your findings in a concise and coherent conclusion |
| T2 Wk4 | 6 May. 24 | **Mon 6th Labour Day** | **LABOUR****DAY** | **Assignment Due** **Begin Physics Unit****LG1, SC1**Definitions | **LG1, SC2**Convert between units of distance, time and speed |