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| **STUDENT UNIT PLANNER** | | | | | | |
| **Year Level:** | | | 10 | | Student check list: 🗹 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:** | | | 4/ 2022 | |
| **Unit Title:** | | | Physics Prep | |
| **Assessment:** | | | End Semester 2 exam | |
| **Key Resource:** | | |  | |
| **WK** | **Wk. Beg** | **Holidays or variations this week** | **Lesson 1** | **Lesson 2** | | **Lesson 3** |
| 1 | 3 Oct. 22 | **Monday**  **Queen’s Birthday Public holiday** | **SI Units**  Fundamental & derived units  Metric prefixes | **Linear Motion**  Introduction to the four equations of linear motion | | **Linear motion**  Introduce to F = ma, and practice at manipulating this with the laws of motion to solve multi step problems**.** |
| 2 | 10 Oct. 22 |  | **PHYSICS QUESTS**  **(Problem solving and Investigations)** | **PHYSICS QUESTS** | | **PHYSICS QUESTS** |
| 3 | 17 Oct. 22 |  | **PHYSICS QUESTS** | **PHYSICS QUESTS** | | **PHYSICS QUESTS** |
| 4 | 24 Oct. 22 |  | **Graphical relationships & linearizing data**  Identify relationships based on shape of a graph | **Linear motion**  Linear motion of a falling object  Graphing and linearizing displacement and time graphs (S = ut + ½ at2) to calculate acceleration | | **Prac 1 – Calculating value for g from falling object using linearization**  Calculating g from falling object |
| 5 | 31 Oct. 22 |  | **Prac 1 – Calculating value for g from falling object (Cont)**  Analysis of results including linearization and **error analysis of trend line** | **Prac 1 – Calculating value for g from falling object (Cont)**  Analysis of results including linearization and **error analysis of trend line & writing conclusion** | | **Prac 2 - Calorimetry** |
| 6 | 7 Nov. 22 |  | **Prac 2 - Calorimetry** | **Prac 2 - Calorimetry** | | **Prac 2 - Calorimetry** |
| 7 | 14 Nov. 22 |  | **Chemistry review and Revision** | **Revision** | | **Revision** |
| 8 | 21 Nov. 22 |  | **Exam Block:**  Physics Data Test + Chemistry Exam  (combined) |  | |  |