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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 unitsMetric 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 objectGraphing 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) |  |  |