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| **Year:** | | **10** | | **Unit:** | **Energy** | |
| **Subject:** | | **Physics** | | **Assessment:** | **Data Test** | |
| **LG** | **LEARNING GOALS and SUCCESS CRITERIA** | | | | | **Where is this in my notebook?** |
| **1**  9 Lessons | **SC1** | | * I can **recall** the SI units for Length, Mass, Time, Temperature, Energy, and Power. | | |  |
| **SC2** | | * I can apply the four equations of motion and Newton’s second law | | |  |
| **SC3** | | * I can **calculate** the amount of error and accuracy associated with different measuring devices such as rulers, callipers and micrometers. | | |  |
| **SC4** | | * I can **calculate** the uncertainty of complex calculations based on the error in given measurements | | |  |
| **SC5** | | * I can **use** scientific notation and metric prefixes to represent very large and very small values | | |  |
| **LG1** | | **Students will manipiulate data in an accurate and detailed manner and consider uncertainty associated with the data (DATA ANALYSIS)** | | |  |
| **2**  4 lessons | **SC6** | | * I can **analyse** graphs to **identify** relationshipsbetween the variables. | | |  |
| **SC7** | | * I can **modify** data to linearize a graph | | |
| **SC8** | | * I can **construct** a trend line from data points on a graph | | |
| **SC9** | | * I can **construct** error bars on a graph | | |
| **SC10** | | * I can **evaluate** the accuracy of a trend line using error bars. | | |
| **SC11** | | * I can conduct an experiment to calculate the acceleration due to gravity of a falling object and the associated uncertainty | | |
| **SC12** | | * I can identify the relationship between an objects height and the time it takes to fall | | |
| **LG 2** | | **Students will understand the equations of motion that related to a moving object undergoing constant acceleration (LINEAR MOTION)** | | |
| **3**  4 Lessons | **SC13** | | * I can **recall** the law of conservation of energy | | |  |
| **SC14** | | * I can use the specific heat capacity of water to **calculate** the amount of energy in a substance | | |  |
| **LG 3** | | **Students will understand the concepts of energy (ENERGY)** | | |  |