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| **Tracking Sheet**  **8th Grade Science**  **Unit: Scientific Investigation**   * **Power standard:** The student will be able to design and conduct experiments using reasoning and critical thinking.   **1** Just starting **2** Not there yet  **3** Got it! **4** Above and beyond | | | | | | | | | | |
| **LEARNING TARGET**  ***“I CAN…”*** | **GLE** | **Quiz**  Red and blue light | **Correct** | **Incorrect** | **Retake** | **Quiz**  Envelope | **Correct** | **Incorrect** | **Retake** | **Level** |
| Design and conduct a valid experiment with multiple trials. | 871Ac  1.1 |  |  | | |  |  | | |  |
| Formulate testable questions and hypotheses. | 871Aa  1.1 | 4a |  |  |  | 2a |  |  |  |
| 4b |  |  |  | 2b |  |  |  |
| Identify and describe the importance of the independent variable, dependent variables, control of constants in a valid experiment. | 871Ab  1.1 | 1 |  |  |  | 3 |  |  |  |
| 2 |  |  |  | 4 |  |  |  |
| 3 |  |  |  | 5 |  |  |  |
| Determine and use the appropriate tools and techniques to collect data. | 871Bb  1.1 |  |  | | |  |  | | |
| Calculate the range and average/mean of a set of data | 871Bg  1.1 |  |  | | |  |  | | |
| Communicate the procedures and results of investigations and explanations through: data tables and graphs (bar, single line) | 871Da  Table  1.1 | 5a |  |  |  | 6a |  |  |  |
| 5b |  |  |  | 6b |  |  |  |
| 5c |  |  |  | 6c |  |  |  |
| 5d |  |  |  | 6d |  |  |  |
| 871Da  Graph  1.1 | 6a |  |  |  | 7a |  |  |  |
| 6b |  |  |  | 7b |  |  |  |
| 6c |  |  |  | 7c |  |  |  |
| 6d |  |  |  | 7d |  |  |  |
| Use data to support a reasonable explanation (conclusions) for the results of a valid experiment. | 871Ca  1.1 |  |  | | |  |  | | |
| Evaluate the design of a lab | 871Ad  1.1 |  |  | | | 1 |  |  |  |
| Use data to make predictions | 871Cb  1.1 |  |  | | |  |  | | |