**SCIENCE NOTEBOOK RUBRIC**

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| --- | --- | --- | --- | --- | --- |
| **Performance Element** | **Excellent**  **4pts** | **Good**  **3pts** | **Developing**  **2 pts** | **Poor**  **1 pt** | **Earned Points** |
| **Organization**  **(x 2)** | * The notebook divided into therespective subsections. * Relevant information such as student name, date and signature present on first page * well written, organized and neat. * contains all required elements: title, hypothesis, materials, etc. | Missing or have not clearly identified one of the following:   * The notebook divided into therespective subsections. * Relevant information such as student name, date and signature present on first page * well written, organized and neat. * contains all required elements: title, hypothesis, materials, etc. | Two key elements missing or not clearly identified:   * The notebook divided into therespective subsections. * Relevant information such as student name, date and signature present on first page * well written, organized and neat. * contains all required elements: title, hypothesis, materials, etc. | More than two key elements missing/not clearly identified.   * The notebook divided into therespective subsections. * Relevant information such as student name, date and signature present on first page * well written, organized and neat. * contains all required elements: title, hypothesis, materials, etc. |  |
| **Procedure**  **(x 5)** | Procedures are:   * Written in command * Written in a list * Does not use I, we, you * Specific * Refer to glassware and instruments used * Includes any measurements | Procedures are missing one of the following::   * Written in command * Written in a list * Does not use I, we, you * Specific * Refer to glassware and instruments used * Includes any measurements | Procedures are missing two of the following::   * Written in command * Written in a list * Does not I, we, you * Specific * Refer to glassware and instruments used * Includes any measurements | Procedures are:   * Copied from the handout   OR MISSING more than two:   * Written in command * Written in a list * Does not use I, we, you * Specific * Refer to glassware and instruments used * Includes measurements |  |
| **Observations/ Data & Calculations**  **(x 3)** | * Observations are plentiful and specific for each experiment * Charts and graphs are recorded where necessary. * Data is properly recorded in a coherent table * Proper calculations are carried out. * Proper units are used. | Missing one of the following:   * Observations are plentiful and specific for each experiment * Charts and graphs are recorded where necessary. * Data is properly recorded in a coherent table * Proper calculations are carried out. * Proper units are used | Missing two of the following:   * Observations are plentiful and specific for each experiment * Charts and graphs are recorded where necessary. * Data is properly recorded in a coherent table * Proper calculations are carried out. * Proper units are used | * No data table present. * Observations are vague and unclear. * Calculations unclear or incorrect. |  |
| **Class Analysis**  **(x 2)** | * Class data and calculations are thorough and correct. * All questions are answered thoroughly | * Most class data and calculations are thorough and correct. * Most questions are answered thoroughly | * Some class data and calculations are thorough and correct. * Some questions are answered thoroughly | * Most data and calculations are missing or incorrect. * Most questions are missing. |  |
| **Conclusion**  **(Post-Lab)**  **(x 3)** | * Restates hypothesis * States hypothesis is incorrect/correct * Data is analyzed thoroughly and correctly. It’s used to support valid conclusions * 2 Sources of error in experiment explained * 2 ways to improve the experiment is explained * Asks a new question * Makes a connection to how experiment could be used in real life. | One key element of conclusion is missing or not fully expanded upon (i.e. evidence, sources of error, etc.):   * Restates hypothesis * States hypothesis is incorrect/correct * Data is analyzed thoroughly and correctly. It’s used to support valid conclusions * 2 Sources of error in experiment explained * 2 ways to improve the experiment is explained * Asks a new question * Makes a connection to how experiment could be used in real life | Two key elements of conclusion are missing:   * Restates hypothesis * States hypothesis is incorrect/correct * Data is analyzed thoroughly and correctly. It’s used to support valid conclusions * 2 Sources of error in experiment explained * 2 ways to improve the experiment is explained * Asks a new question * Makes a connection to how experiment could be used in real life | * Paraphrases manual with little data analysis * Conclusions may be wrong or data misinterpreted. * More than two key elements missing from conclusion. |  |
| **Score:** | | | **Total Score (60 pts):** | | /60 |