**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.
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| **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.
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| **Score:**  | **Total Score (60 pts):** |   /60 |