**Police Department Lab Report**

**CSI Team Letter \_\_\_\_\_\_\_ Due Date \_\_\_\_\_\_\_\_\_\_\_\_\_**

Each member in your group must type a 1-2 page letter to the police department that provides information about who stole the digital balances from the Driscoll Laboratory. Follow the instructions below for your letter.

1. Include the correct name of your suspect (and the letter of your group’s evidence packet).
2. Include all the evidence that helped your group determine who the thief is who stole the digital balances.
   1. Describe the procedure and analysis that helped your group determine which pen was used to write the note left at the crime scene.
   2. Describe the procedures and analysis that helped your group determine which white solid was left at the crime scene.
3. Correctly use and define at least 5 of the vocabulary words listed below when you explain the techniques and procedures used during your lab investigation.

**chromatography conductivity conductivity meter**

**solvent solute solubility**

**ionic compound covalent compound property**

**melting point color emission**

1. In your investigation, you found two pieces of evidence that helped you determine who the suspect was. Explain why one piece of evidence would not have been enough to help your CSI group to determine exactly who stole the digital balance.
2. Include your data table with all the results of the tests.
3. In your report, include pictures of test results and/or procedures.

**Police Report Grading Rubric**

|  |  |  |  |
| --- | --- | --- | --- |
| **Correct name of suspect** | Has the correct name of the suspect  **5 points** |  | Does not have the correct name of the suspect  **0 points** |
| **Explains the procedures and techniques used** | Correctly explains all of the important parts of the procedure and techniques used during the lab  **5 points** | Correctly explains some of the important parts of procedure and techniques used.  **3 points** | Does not explain the important parts of the procedure and techniques used.  **0 point** |
| **Explanation of the need for two pieces of evidence** | Effectively describes why two pieces of evidence were needed to identify the suspect  **5 points** | Provides some reasons why two pieces of evidence were needed to identify the suspect  **3 points** | Does not give or explain any correct reasons for needing two pieces of evidence  **0 point** |
| **Typed Letter** | The letter is typed  **5 points** | Some parts are not typed  **3 points** | Letter is not typed  **1 point** |
| **Spelling and Grammar** | Letter has no spelling or grammar errors  **5 points** | Letter has some spelling or grammar errors  **3 points** | Letter is full of spelling or grammar errors  **1 point** |
| **Correct use of vocabulary** | All vocabulary from the list above used correctly and outlined  **5 points each** | Most vocabulary from the list above used correctly  **3 points** | Very few vocabulary from the list above used correctly  **1 point** |
| **Data Table** | Data table is inserted as part of document. Neat and easy to read all experimental data  **5 points** | Data table is written in  **3 points** | No data table  **0 point** |
| **Pictures of evidence/procedures/ techniques** | Pictures from all tests and results  **5 points** | Pictures from some tests and results  **3 points** | No pictures from any tests and results  **0 point** |