Science 10 Enriched Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
**Lab Report Format** Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Block:\_\_\_\_

Reporting on a laboratory activity is a skill that we will aim to **master**. Standardizing the report format facilitates communication between scientists. The format that we will use for Science 10 Enriched models the format that scientists use when they publish the results of their experiments in journals such as *Science*. Complete all lab reports either in work processing or in ink.

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| Science 10 Enriched Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Partner’s Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Date of Lab: \_\_\_\_\_\_\_\_\_\_\_\_\_ Block \_\_\_\_\_  **Title (clearly reveals purpose of lab)Purpose**The purpose clearly identifies the objectives of the experiment. The purpose must be written in full sentences, and includes questions and hypotheses. Before the lab, clearly state your predictions here. **Materials**List all materials (equipment and chemicals) that you use for the experiment, or refer to a page of a handout. (Example: see p. 1 of “Experiment 1” Handout.). If there are safety hazards for any of the chemicals then you must write out the hazard. (Ex. sodium hydroxide – corrosive)**Procedure**Summarize the procedure in a **flow chart** using pictures, diagrams, and your own words. This flow chart outlines the main steps of the lab and serves as a quick reference during the lab.**Observations**Include a detailed record of experimental progress (what happened each day that you came to the lab) – include dates for each entry **Conclusion**The conclusion is written in full complete sentences. You must address the purpose of the experiment by answering the objective and comparing your results to what you predicted. For example, if the purpose of the experiment was to determine the mass in 1 L of water, you state in your conclusion: “The mass of 1L of water was found to be \_\_\_\_\_ g, however, the predicted amount was only \_\_\_\_\_ g.” In other words, this is where you summarize your results and compare to what you thought would happen. In your conclusion, you also explain relevance of your results (why does it matter?), identify sources of error, and suggest improvements to the procedure of this lab. You also identify new questions that arise and suggest new experiments for the future. **Bibliography** If you choose to use any outside information, please source it. |

Science 10 Enriched - **Lab Criteria**

**Science 10E: Final Lab Report for Crystal Growing Contest** Names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*(*Title of Lab:)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block: \_\_\_\_\_

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|  | **Beginning**  | **Developing** | **Accomplished**  | **Exemplary**  |
| **Presentation/Format** | - Written in pencil or coloured pens- Frequent, obvious grammatical and spelling errors that confuse the reader-Titles or heading missing- Lab report is out of order- Sections are missing | - Written in blue/black pen or word processed (except flow chart)- Some distracting grammar and spelling errors which do not create confusion -Titles or Headings not bold or underlined- Standard lab report format is followed | - Neatly written in blue/black pen or word processed (except flow chart)- Minimal Grammar and spelling errors- Title/headings are bold or underlined - Standard lab report format is followed | - Neatly written in blue/black pen or word processed (except flow chart)- Grammar and spelling correct throughout- Title/headings are bold and underlined - Crisp, neat, organized and professional lab report format that pleases the eye |
| **Prelab** | **Title, Name, Date, Block** | - The title is just the investigation #-Missing all of name, date or block | - Title copied from the text-Missing one of Name, date or block | - Title original and creative or original and reveals purpose of lab –but not both -includes name, date and block | - Title is creative, original, and reveals purpose of lab-names, date and block in the right header |
| **Purpose/Prediction** | - Point form or question- Copied from the text - No prediction inlcuded |  -Point form or question- In own words- Includes a simple prediction | - Includes “to discover…”- In own words- Includes a straightforward hypothesis/prediction | - Includes “to discover…”- In own words- Includes thoughtful hypothesis/prediction |
| **Materials** | - Some items missing- Not in list format | - All items included- Not in list format | - All materials listed - In list format | - All materials are listed in list format- Includes diagrams of the equipment |
| **Procedure**  | - Procedure is mostly copied/not in own words- Many steps are missing or unclear - Not listed | - In your own words- Some minor steps are missing or unclear- or not In list format | - In your own words- All steps included- In list format, no diagrams | - Excellent organization, easy to follow, clear and concise.- All steps included- In flowchart format with diagrams |
| **During Lab** | **Observations** | **Written Comments** | - No log of experiment progress- dates of observations not included | - A couple of events are noted- some dates missing | - most important events are noted- most dates included | - Detailed log of experiment progress- Dates given for each entry |
|  | **Conclusion** | - Point form - only 1 or 2 pieces of criteria are covered but not thorough- No sources of error or insight- Personal opinions are included “I like this lab” or, “This lab was FUN!” | - Sentence structure lacking - 3 or 4 pieces of criteria are missing or incomplete | - Full Sentences, well structured- 1 or 2 pieces of criteria are missing or incomplete | - Full Sentences, well structuredAll criteria listed below must be included:- Answers purpose - summary of results and what they mean - Interesting Findings- States sources of error- Connects results to big picture (relevance)- Asks new questions-Suggests improvement to this lab |