

# *Crystal-Growing Inquiry Project – Reflection. Individual/ Group Evaluation (Science 9)*

Respond to the following questions as a follow-up to the crystal-growing project. Other than question #1, your responses may be in point form or in sentence form and can be any length. You may choose to leave some questions (e.g. #5, #9) blank if you have nothing to write. The reflection will not be marked but will be used to help determine your project grade.

To help you answer some of the questions, the criteria for the project are copied below.

<b>Report Evaluation</b>				
Ext	Proficient		Dev	Emg
	<ul style="list-style-type: none"> <li>- Report is typed and has been organized and formatted correctly</li> <li>- Report includes all required sections and required information</li> <li>- Report is clear and easy to understand; procedures have sufficient detail that they could be replicated</li> <li>- Report is thoughtful and reflective and demonstrates a good understanding of the scientific method</li> <li>- Experiments have been carefully planned, and all relevant control variables have been accounted for</li> <li>- All links to external information sources have been included</li> </ul>			

<b>Presentation Evaluation</b>				
	Ext	Proficient	Dev	Emg
<b>Individual</b>		<ul style="list-style-type: none"> <li>- Good presentation skills (voice loud and clear, minimal fidgeting, section has been rehearsed, information is clearly presented)</li> <li>- Visual aids are used effectively</li> <li>- Individual has completed a fair share of the work for this group project, according to group members' evaluations</li> </ul>		
<b>Group</b>		<ul style="list-style-type: none"> <li>- Presentation flows well and is cohesive; transitions have been rehearsed</li> <li>- Presentation is complete and covers all required topics</li> <li>- Visual aids are organized, visually appealing, and a good mixture of images and text. Text is easy to read and free of mistakes.</li> <li>- Group uses in-class time effectively to work on the project</li> </ul>		

## **Core Competencies Reflection**

- 1) List one of the core competencies that you think this project helped you develop or grow in. Explain in several sentences how this project was helpful in developing this skill, and/or what you learned in the process.
- 2) Post your reflection and your favourite photos/artifacts from this project into a portfolio post. Tag the post with: "Core Competencies" and "Science".

## Report + Experiment Reflection

- 3) Reflect upon the process of conducting research, planning and carrying out multiple iterations of your experiment, and writing your report.
  - a. What did you find easy or difficult about this process?
  - b. What did you learn about the process of science? Did you experience anything surprising or unexpected?
- 4) Optional: Does your report go **above and beyond** Proficient expectations for this project? If so, explain what your group did, and why this deserves a higher grade.

## Presentation Reflection

- 5) How would you rate your **individual** presentation skills for this project, using the proficiency scale? Provide evidence to support your rating.
- 6) Is there anything Ms. Au should keep in mind when assessing you individually? (e.g. past history with presentations, fears/anxieties, details about your personal life which may have affected you).
- 7) How would you rate your group presentation skills for this project, using the proficiency scale? Provide evidence to support your rating.
- 8) Optional: Did your presentation go **above and beyond** Proficient expectations for this project? If so, explain what your group did, and why this deserves a higher grade.
- 9)
  - a. List your group members below, including yourself. Next to each name, estimate honestly the amount of work that that group member did with the project as a percentage. Your ratings will be kept anonymous.
  - b. Explain any group dynamics that you think were relevant in causing an unequal division of work. (E.g. you might comment on individuals' expectations, abilities to compromise, leadership skills, abilities to delegate tasks, communication, taking initiative, staying focused in class, completing tasks that have been assigned by the group, standards for work, organization, being unable to work because of illness, etc.)

## Final Thoughts

- 10) How was your experience with this project? Is there anything you want Ms. Au to know about the project itself that could be used to improve it next time?