

Ice Cube Cooling Lab Expectations Due Date: _____

Completed on lined paper or in google docs, please do not turn in lab worksheet.

1. Data Table

Completed data table showing all trials for the regular and weighted ice cubes. It should have appropriate headings with units. Trials should be averaged and have a column/row for entering the averages for final temperature and time in the table.

2. Conclusion Statement with Evidence (Paragraph 1)

Conclusion statement on your findings as they relate to the testable question. Restate the testable question in your conclusion. State all of your average data from your data table to support your conclusion statement.

3. Observations & Explanation of Results (Paragraph 2)

Detailed observations of what you observed with the food coloring and cooling occurring with the regular and weighted ice cubes. Where was the food coloring in general for each? Then explain your observations using what we have learned about convection and the movement of liquids. Give a detailed explanation using the vocab on our convection organizer.

4. Error Analysis & Impacts on Results (Paragraph 3)

Select one error that occurred in the lab. This should be an error during the procedure that could be addressed. Clearly explain the error that occurred in detail, and how it impacts your data (temperature and time). Finally, provide a detailed solution for how you would improve the situation with a change in your procedure.