

Calgary Youth Science Fair Log Book

Mina and Leo

November 6th

We had our first meeting with Mrs. Wilboughy and gained initial thoughts about potential projects.

November 26th

Listed out a few ideas that could be investigated: Photoredox catalysts under UV light and investigating their health, Water treatment research, and catalysts in decomposition reactions.

November 30th

Began research on photoredox catalysts.

December 10th

Had an interim meeting with supervisor Miss. K. Wilboughy to discuss the feasibility of the

experiment and the specific use of compound *Eyosin Y*. After discussion photoredox catalysis was not possible to be experimented due to limited resources, and planned to figure out another project similar to this.

January 29th

Started investigating iron(III) chloride acting as a catalyst on hydrogen peroxide decomposition reaction

February 5th

Started research on iron(III) chloride redox reaction with hydrogen peroxide

February 10th.

Submitted final ethics and safety form regarding project: *Analysis of Iron(III) chloride as Catalyst in Efficiency and Effectiveness: Leo Xu, Mina Soliman.*

February 11th

Finished research and planned out the rough copy of: hypothesis, variables, and Procedures

February 27th

Finished the finalized copy of experiment produces and goals March 10th

Required materials processed

March 11th

Started experiment in lab facilities

March 12th

Finished experiment.

March 13th

Started working on analysis, conclusion, source of error, applications, and observations

March 20th

All required documentation completed