

My Geology Project

Project Statement:

My project is create an interdisciplinary chemistry unit concerning solubility and limestone formations, past and present.

Objectives:

- Students will investigate the negative solubility property of calcium carbonate compared to other compounds such as salts.
- Students will actively explore geological limestone formations of the Morgan Quarry
- Students will discover the processes of limestone formation through limestone and fossil collection and research
- Students will discuss current limestone forming areas relating chemical processes to limestone formation.
- Students will integrate chemistry content to real-world predictable situations.

Implementation:

Students will actively study limestone formation through solubility lab activities relating to solutions and solubility rules, class discussions, a field trip to the Morgan Quarry in Waterloo, post-quarry investigations and discussions of collections, and class discussion of Caico Islands in the Bahamas. Students will be responsible for creating a detailed project containing a lab reports, field observations and an essay relating past and present limestone formation with chemistry content.

Evaluation:

Students will be evaluated based on participation and their completed project (via rubric).