



Science Grade 6

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Room: B316 Office hours: 3:30-4:00 Tues-Fri

Course Overview

Students will be involved in a series of hands-on labs and activities that should create a base for building content and strategies in science.

Labs are more of an exploratory nature. Students will have experiences in creating their own investigation during the first semester and will use these skills for the remainder of the year.

Participation and involvement and a modicum of regular study is expected. Assessments will take many forms over the year in both the formative and summative nature. Projects and models are an intricate part of the course.

Course Objectives

Content in science is forever changing; new ideas are discovered and old ones proven outdated. Therefore, science at Chadwick should reflect the basic nature of science. Inquiry, questioning, and experience are the keys to the classes taught.

Sixth grade science concentrates on Earth Science primarily. That said, there may be many times when life science, and the physical sciences will be tapped for broader and deeper understandings.

MYP Assessment Criteria: Sciences

Criterion A: Knowing and understanding

Criterion B: Inquiring and designing

Criterion C: Processing and evaluation

Criterion D: Reflecting on the impacts of science

Homework

Homework is mainly review of vocabulary, working on projects, completing lab reports and bringing occasional materials from home.

Materials

Students will need the following materials each day in class:

- Two pocket folder
- Pencils/pens
- MacBook

Course Content

Unit 1

- Scientific Method
- Investigation Design
- Related Global issues

Unit 2

- Earth Science
- Theory Development
- Plate Tectonics
- Earthquakes
- Volcanoes
- Rock Formation
- Cycles related to geology
- Related Global issues

Unit 3

- Physical Weathering
- Chemical Weathering
- Moving Sediment
- Graded Bedding
- Meandering Rivers

Unit 4

- What are plants?
- Roots, Stems, & Leaves
- Hydroponics
- Reproduction in Flowering Plants
- Life Cycle of a Plant