

Project: Water Drainage Study of Collected Soil Samples

Description: Students will collect and examine soil samples from several sites near our school (hand lenses, clay contents etc) both in the field and in the lab.

Objectives: Students will understand differences in soil types, explain collection procedures, design and conduct an experiment, and record and analyze data.

Implementation: After the field collection, students will then examine the soils in the lab, including packing them into clear plastic tubes with a small hole in a bottom end cap to record water drainage test results after adding simulated surface water. Each group of students will design how this testing will be done and the best way to record and report the data. Students will also use the computer lab to examine the driller's logs for the many wells recently dug for our building's geothermal heating/cooling system to see the soil description at greater depths.

Evaluation: We have a standard rubric we use for lab reports and well as a participation rubric which involves self assessment and assessment of each team member.

***Additionally Lynn's Earth Memory activity, the Iowater testing, microfossils, and many other things we did this week will be incorporated into my year (I just wanted to add some idea that hadn't been presented, but the ones we did will be great to use).