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Geology of Iowa for Teachers

Course Project Development

6/24/10

**Description:** The project I want to develop for my class is to have the students develop a small collection of rocks for use in the classroom during a unit on the rock cycle.

Grade level?

**Objectives/Goals:** My students and I will use their rock collections to assist them in identifying the three main classifications of rocks: Igneous, Metamorphic, and Sedimentary.

**Implementation:** In the rocks & minerals section of my Earth Science unit in Physical Science, students will be going to a rock quarry and finding rocks of the three major types: Igneous, Metamorphic, and Sedimentary and once they have found them, they must then explain what processes all of the rocks they collected have gone through. Once this has been done, then we will discuss in class about the geologic history of the earth (briefly), the layers of the soil and how these geologic processes ended up placing the rocks where the students found them. After the discussion, the students will write a one page report about the types of rocks they collected, explain what processes were involved in order to create that rock, and how those processes put that rock they collected in its place.

**Evaluation:** The students reports will be graded based on the identification of their rocks that they turn in, the description of the processes involved in forming their rock, and the description of how those rocks made it to their current location.