

Geology of Iowa For Teachers Workshop Summer 2010

(6th grade)

- a. **Description:** I can take a lot of the information I have obtained and use it in each one of my classes this year. I can use the fossils from the Devonian era for my sixth graders when we are studying the Ocean unit. We have a section in there in which we observe the various shells. I will have them compare and contrast the shells found in the ocean to the fossils found in Iowa.
- b. **Objectives/Goals:** This will be used to understand the marine environment that must have existed in Iowa during the Devonian time period. This will also get the students to consider WHERE Iowa may have been located during this time.
- c. **Implementation:** I will use the Ocean unit when describing the marine environment and the living organisms that live there. Students will observe both shells that are currently found in the ocean and fossils that are commonly found in Iowa. I will have maps of Iowa during the Devonian time period and a key of commonly found fossils in Iowa available.
- d. **Evaluation:** Students will match up Iowan fossils to similar ocean creatures. Students will also be expected to consider the ocean environment and describe Iowa's landscape during this time.

(7th grade)

- a. **Description:** For 7th grade, I would develop a collection of Commonly Found Fossils in Iowa book.
- b. **Objectives/Goals:** This book will be used to identify and understand various plants and animals that have lived in Iowa.
- c. **Implementation:** Our 7th grade unit starts out with Earth History and discussing rock layers in the Grand Canyon. I will incorporate the most commonly found fossils in Iowa and what information that it has given us.
- d. **Evaluation:** Students will use a fossil identification key to label and give some information about each. One fossil per page with a drawing and

description. Each student will make their own book using several fossils and or drawing them.

(8th grade)

- a. **Description:** My project is to develop a topographical map of Iowa
- b. **Objectives:** This map will be used to assist my students in understanding what Iowa's landforms are and the importance of maps
- c. **Implementation:** Our unit on the Moon begins with map-making. To develop a better understanding of maps and Iowa's geography, we will use a topographical map (Dr. Ray Anderson's). The students will then be given a blank map of Iowa with all of the counties and apply the topographical data using the Iowa Geological Survey website.
- d. **Evaluation:** Students will be assessed by answering various questions about the map, identifying areas of interest.