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A). Description: My project is to design an unit developing the Earth Science Big Idea #3: Earth is a complex system of interacting rock, water, air, and life.

B) Objectives/Goals:

- ❖ Students will be able to explain the rock cycle and locate examples of each of the three types of rock: sedimentary, metamorphic, and igneous.
- ❖ Students will be able to classify types of soil and explain how soil is formed and/or deposited.
- ❖ Students will be able to provide evidence that soil is "living".
- ❖ Students will be able to explain how tap water arrives in our homes using watershed, aquifer, and hydrologic cycle.
- ❖ Students will gather data using Iowa Water, GLOBE Atmosphere, and GLOBE Land Cover.
- ❖ Students will make predictions about the future climate and ecosystems in Eddyville.
- ❖ Using fossils, students will compare and contrast the ecosystems found in modern and historic Iowa.

C). Implementation: This unit will be used in my field biology class which is composed of 10-12 grade students.

D). Evaluation: Students will be asked to complete a research project that incorporates two of the interacting parts of the Earth system. The lab report and research project will serve as a semester exam.