Lesson Plan

Lesson Number   Day 6   **Duration of Lesson**   1 hour
Unit Title   History of Geology   **Teacher**   Mr. Strong
Lesson Title Introduction of NE Geological Column Technology Project

Objectives of the Lesson
Upon completion of this lesson, students should be able to:
1. Demonstrate mastery of knowledge in geological history.
2. Demonstrate ability to synthesize technology with learning comprehension of geological history.
3. Demonstrate ability to research information effectively that is relevant to classroom learning.
4. Meet the standard 12.5.3 or 8.5.2.

Materials Needed
1. Laptop (preferably a MacBook) with internet capability.
2. Multimedia software program such as Keynote or PowerPoint.
3. Project syllabus with grading rubric.
4. Projector

Prerequisite knowledge
1. Lithology, specifically sedimentary rocks with emphasis in sediment size, classification, deposition, and sedimentary structures.
2. Depositional environment and climate.
3. Geological history of Nebraska.

Instructional procedure
1. Hand out syllabus explaining multimedia project requirements.
2. Hand out grading rubric so students understand exactly what they need to do to earn the grade they desire.
3. Show example Keynote presentation as an example. Show samples of lithology, sediment, fossils, etc. from field experience that corresponds with pictures in Keynote presentation. Emphasize that there are many capabilities for a multimedia presentation that were not included in example such as music, voice over, and a myriad of special effects.

Notes
1. This project is designed to be the assessment at the end of Geologic History unit.
2. It is designed to incorporate technology into the learning process.
3. This project can be manipulated to fit any geographic location, class, or student age group with or without actual field experience.
4. With no actual field experience, pictures of specific rock formations can be researched online and copied into final presentation.
5. For advance projects, iMovie can be incorporated into final project.