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a. Description:

My project is to develop a collection of fossils from quarries located in Iowa for use in my classroom. I teach Earth Science at the high school level for advanced 8th grade students.

b. Objectives:

1. Earth Science Literacy Objectives:

BIG IDEA 2. Earth is 4.6 billion years old.

2.6 Life on Earth began more than 3.5 billion years ago.

2.7 Over Earth's vast history, both gradual and catastrophic processes have produced enormous changes.

BIG IDEA 5. Earth is the water planet.

5.2 Water is essential for life on Earth.

BIG IDEA 6. Life evolves on a dynamic Earth and continuously modifies Earth.

6.1 Fossils are the preserved evidence of ancient life.

6.2 Evolution, including the origination and extinction of species, is a natural and ongoing process.

2. Des Moines Public Schools Earth Science Curriculum 2011

Content Standards:

Scientists can determine the age of materials in the earth system by using absolute and relative dating methods.

Content Objectives:

*Geologic Time Scale

Iowa Core Statements:

Understand and apply knowledge of the origin and evolution of the earth system.

Common Student-Centered Learning Targets:

2D. I can interpret rock layers.

2E. I can explain how rock and fossil ages are determined.

2F. I can interpret the Geologic Time Scale.

Common Assessments:

Questions 11 through 20 on Unit 2: Rocks, Minerals, and Geologic Time

Goals:

My collection will be used allow students to compare pictures, drawings, and descriptions to identify fossils found in Iowa.