**Rocks, Minerals, Soil Unit**

**Science--6**

**M. Skidmore**

**Rocks, Minerals, Soil**

**Strand:** All matter is made of small particles called atoms. The properties of matter are based on the order and organization of atoms and molecules. Cells, minerals, rocks, and soil are all examples of matter.

**Topic:** This topic focuses on the study of rocks, minerals, and soil, which make up the lithosphere. Classifying and identifying different types of rocks, minerals, and soil can decode the past environment in which they formed.

**Content Standard:**

1. Minerals have specific, quantifiable properties.

2. Igneous, metamorphic, and sedimentary rocks have unique characteristics

that can be used for identification and/or classification.

3. Igneous, metamorphic, and sedimentary rocks form in different ways.

4. Soil is unconsolidated material that contains nutrient matter and

weathered rock.

5. Rocks, minerals, and soils, have common and practical uses.

**Concepts/Terms**

lithosphere classify

mineral identify

quantifiable property prediction

metamorphic rock conclusion

sedimentary rock reflection

igneous rock scientific investigation

soil nutrients

weathered

unconsolidated material

magma

geologic resource

nonrenewable resource

**I CAN Critical Questions / Statements:**

1. I can classify and identify different types of rocks, minerals, and soil to decode the past environment in which they formed.

2. I can experiment and investigate to identify how rock types were formed.

3. I can use the rock cycle to describe how rocks are formed by heat/pressure, weathering, and/or crystallization.

4. I can compare and contrast rocks and minerals.

5. I can differentiate between the different soil horizons using the composition of each.

6. I can research different uses of minerals, soil, and rock within the community and within Ohio, then present findings to the class.

**Assessments:**

1. Class discussions, group labs in class, hand-on activities, skills sheets.

2. Identify rocks, and classify types, analyze, and write power conclusions/reflection

3. Quizzes, SCA's (pretest/posttest)