

Unit Plan

Title: Rocks and Minerals

Unit Summary:

The students will be learning about different rocks and minerals through hand-on activities. We will compare and contrast the different types of rocks as well as learn how we classify different rocks and minerals.

Critical Questions:

What is the difference between rocks and minerals?

How are each type of rock formed?

How can you identify minerals...what types of tests can you do?

How are minerals formed?

How are each type rock classified?

Ohio Standards Connections:

1. Describe how minerals make up rocks.
2. Describe how rocks and minerals are formed and classified.
3. Describe the rock cycle and explain there are sedimentary, igneous, and metamorphic rocks that can be identified by different properties.
4. Explain that rocks are made of one or more minerals.
5. Identify minerals by their physical properties.

Assessment/Ongoing, post, summative

Pre-unit assessment, post unit assessment, group project (authentic assessment), quarterly assessment

Differentiated Instruction Support for all learners:

Students will have many different exposures to the material. There will be group discussions, videos, class discussions, chapter reading and answering of questions, group activities, etc.

Key Vocabulary:

- 1. sedimentary**
- 2. metamorphic**
- 3. igneous**
- 4. crystals**
- 5. grains**
- 6. streak**
- 7. luster**
- 8. cleavage**
- 9. hardness**
- 10.reactive**
- 11.fossils**
- 12.marble**
- 13.slate**
- 14.limestone**
- 15.sandstone**
- 16.pumice**
- 17.magnetite**
- 18.granite**
- 19.obsidian**
- 20.minerals**