# Learning Progression

***FOSS Earth Materials*** **Standards: 4-5 INQ** and **4-5 ES2**

**Prerequisite skill:** Rock comes in many sizes and shapes. 2-3 ES
Collaboratively carries out investigations with teacher support 2-3 INQ

Make systematic *observations.*
4-5 INQD

Rocks have different *properties* that can be observed and described.
4-5 ES2A
Inv. 1, Part 1

**Success Criteria:**
I can…observe and describe properties of rocks and minerals.

**Formative Assessment:**

Written observations of rock properties.

FOSS Earth Materials Notebook pp. 2 & 3

Record relevant data from *observations* and use the data to answer *questions.*
4-5 INQ A&D

A rock is an Earth material composed of minerals.
4-5 ES2A
Inv. 1, Part 2

**Success Criteria:**
I can…record evidence/data from my observations that will help me answer questions.

**Formative Assessment:**

Recorded observations of rock composition are used to answer questions.

FOSS Earth Materials Notebook pp. 4 & 5

Answer *questions* and compare the answers with *evidence* from the real world.
4-5 INQA

Minerals have specific *properties*.
4-5 ES2A
Inv. 1, Parts 2 & 3

**Success Criteria:**
I can…use my evidence/data to answer questions about minerals.

**Formative Assessment:**

Observations made during scratch test establish specific properties of minerals.

FOSS Scratch test chart and Student Sheet #15.

Systematic ally collect and record relevant *observations* and data.
4-5 INQD

Rocks and minerals can be classified by their *physical* and *chemical properties*.
4-5 ES 2A
Inv. 2 and Inv. 3

**Success Criteria:**
I can…systematically record data about rocks and minerals.

**Formative Assessment:**

Test rocks for calcite using a systematic process.

FOSS Earth Materials Notebook pp. 11 & 12.

Support conclusions with evidence/data..
4-5 INQD

Rocks and minerals can be classified by their *physical* and *chemical properties*.
4-5 ES 2A
Inv. 2 and Inv. 3

**Success Criteria:**
I can…identify rocks and minerals by their physical and chemical properties and support my conclusions with evidence.

**Formative Assessment:**

Written narrative

FOSS end of module assessment (used formatively in this case) narrative item #14.

**Scientific *investigations* involve asking and answering *questions* and comparing the answers with *evidence* from the real world.**
**4-5 INQ A & D**

**Earth materials include solid rocks and soil which can be identified by their *physical* and *chemical properties***
**4-5 ES2A**

**Later big ideas that build on this big idea include:**

The rock cycle describes the formation of rock.

Sediments are cemented together to form rock. 6-8 ES

Collaborate to design and carry out investigations to answer questions. 6-8 INQ

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Northwest Educational Service District 189
*Together We Can*
Math & Science Collaborative Inquiry Project