

Rocks • Utah Standard 2.1

Hands-on Professional Development For 2nd Grade Teachers

The Offering

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| Grade | 2 |
| Topic | Rocks |
| Standard | 2.1 |

A 1.5 hour hands-on science workshop that will introduce you to 10 hands-on labs and activities selected specifically to present Utah Standard 2.1 to your students. All of the specimens used in the labs are native to Utah. Details on back.

Workshop Specifics

Host: Sara Mcaffee
Provo School District

Fee: \$ 75./teacher

Date: November 19, 2019

Time: 4:00 PM to 5:30 PM

Location: Grandview Learning Center
1591 North Jordan Avenue
Provo, Utah

Instructor: Bryce Hixson



Loose in the Lab

Questions?

Call 801-568-9596

To Register for the Workshop
Click [HERE](#)

2nd Grade Science • Rocks

Workshop Objectives

This is a hands-on workshop that uses Utah rocks and soils to teach the standards for 2nd grade geology. By the end of the workshop teachers will be able to:

Objective 2

a. Explain how smaller rocks come from the breakage and weathering of larger rocks.

b. Describe Utah rocks in terms of their parts.

c. Sort Utah rocks based upon color, hardness, texture, layering, particle size and type.

d. Introduce the three major categories of rocks, igneous, metamorphic and sedimentary, and use the data collected to identify and classify the rocks they studied.

Time Requirement

90 minutes

Resources Provided

a. Lab Guide

Each teacher will receive a 64-page lab guide that outlines the 10 activities presented during the training. Each lab has teacher background and prep pages, reproducible student directions, and assessment sheets.

b. Hand-on Materials

Each teacher will receive and keep their own participant's kit.

Standards & Curriculum Outline

Objective 1

Describe the characteristics of different rocks.

a. Erosion

Lab: Pocket Rock Tumbler

Lab: Matching Soil & Rocks

b. Physical Properties of Rocks

Game: Mineral Match

Lab: Rock Stations

Geography: Rockin' Utah

Writing/Art: Rockography

c. Rock Identification

Demo: Table Top Volcano

Models: Petrified Sand Dunes

Lab: Mashed Metamorphic Minibites

Guided Activity: Mocha Chip Rock Cycle

Fees & Options

1. Just the Workshop Please \$ 75./teacher

Each teacher will receive a lab guide and a set of hands-on materials to use and keep. Contents include:

64 Page Lab Guide

10 activities presented during the training. Each lab has teacher background and prep pages, reproducible student directions, and assessment sheets.

1.5 Hours of Instruction

Hands-on PD Kit:

1 Plastic Container w/lid, 12 oz.

1 Bag of Gypsum Rocks

1 Bag of Quartzite Rock

4 Soil Samples, 1 oz. each

1 Set of Mineral Match Cards

12 Utah Rock specimens

1 Nail

1 Penny

1 Hand Lens, 1"

1 Erlenmeyer Flask, 250 mL

1 Pie tin, 12"

7/8 oz. Sodium Bicarbonate Powder

7/8 oz. Aluminum Sulfate Powder

1 oz. Red Food Coloring

1 oz. Yellow Food Coloring

1 oz. Liquid Detergent

1 oz. Glue solution

1 oz. Gray Sand w/scoop

1 6 oz. Paper Cup

3 Craft Sticks

3 4 oz. Portion Cups

1 Bag of 15 Mixed Chocolate Chips

1 Plastic knife

1 Paper plate

1 Sheet of aluminum foil

2. Classroom Kit & Workshop \$ 195.

Kit includes enough materials for 10 lab groups/30 students. Ideal for a single classroom. Includes instruction, lab book & kit.

3. School Kit & Workshop \$ 345.

Ideal for a school science closet or as a resource kit available to be checked out from the district for an instructional unit. **Can be used four (4) times before the consumables need to be refilled.** Perfect for school science specialists or lead science teachers. Includes instruction, lab book & kit.