

# Out of the Rock Lesson Plan

Due Date:

The assignment for the *Out of the Rock Workshop 2016* is to create a lesson plan demonstrating how you will incorporate the workshop content into your classroom instruction.

The lesson plan will include general plans detailed on the lesson plan template and all parts must be completed. The lesson plan includes:

- Correlations to grade specific learning standards (e.g. Idaho Science Standards, proposed Idaho State Science Standards Draft April 2015 or Next Generation Science Standards)
- Learning objectives
- Content to be covered
- One or more activities
- NGSS Science and Engineering Practices (Address two.)
- Assessments
- Rubric(s) assessing learning objectives and practices

Within the rubric(s) you will define/describe the evidence or criteria demonstrated by the students to show if they have reached the various levels of proficiency for each learning objective and Science and Engineering Practice that you have selected to address in your lesson plan.

## NGSS Science and Engineering Practices

1. Asking questions (for science) and defining problems (for engineering)
2. Developing and using models
3. Planning and carrying out investigations
4. Analyzing and interpreting data
5. Using mathematics and computational thinking
6. Constructing explanations (for science) and designing solutions (for engineering)
7. Engaging in argument from evidence
8. Obtaining, evaluating and communicating information

Completed lesson plan template and rubrics should be emailed to:

Judy Walling  
National Energy Foundation  
judy.walling@nef1.org  
If you have questions, please call Judy at 1-208-866-1364.



# Out of the Rock Lesson Plan

Participant Name: \_\_\_\_\_

Materials:

Lesson Plan Title: \_\_\_\_\_

Grade Level(s): \_\_\_\_\_

Time Frame: \_\_\_\_\_

Learning Standards: Include two or three standards from current Idaho Science Standards, proposed Idaho State Standards Draft April 2015 or Next Generation Science Standards.

Procedure:

Learning Objectives:

Project/Activity:

Next Generation Science Standards Science and Engineering Practices to be addressed. Choose two.

Assessment Plans and Documents: (Attach: e.g. tests, checklists, observation protocols and required rubric)

References and Resources:

Background Information:

Possible Place-based Connections and Contacts:



# Attainment of Learning Objectives

Learning Objective	12 Exemplary	9 Proficient	6 Developing	3 Minimal	Score

# Attainment of Science and Engineering Practices

Practices	12 Exemplary	9 Proficient	6 Developing	3 Minimal	Score