



## SECTION 2: EDIBLE ROCKS

### LAB

### INTRODUCTION

A rock is one or more minerals. The Earth mixes the minerals together by melting them using heat and pressure. As the materials cool, the mixture becomes rock made up of distinct minerals. The amount and type of minerals determine the type of rock. Geologists examine rocks and classify them according to their minerals.

Make cookies adding many of the following ingredients to a standard cookie mix: chocolate chips, raisins, butterscotch chip, M&M's, nuts, etc. Make up a story line and ask students to find precious minerals in their cookie rock. For example, copper (gold raisins), feldspar (cranberries), mica (raisins), quartz (white chocolate)...

### ASSESSMENT ANCHORS ADDRESSED

- S4.A.2.2** Identify appropriate instruments for a specific task and describe the information the instrument can provide.
- S4.C.1.1** Describe observable physical properties of matter.
- S4.A.3.3** Identify and make observations about patterns that regularly occur and reoccur in nature.
- S4.D.1.2** Identify the types and uses of Earth's resources.

### PURPOSE

Students will further their understanding about rocks and minerals by searching for "minerals" in pre made cookie rocks.

### MATERIALS

#### For Each Pair of Students

- |                |                          |
|----------------|--------------------------|
| 1 granite rock | 1 cookie*                |
| 1 toothpick    | 1 paper towel            |
| Worksheet      | 1 spring scale (0-100 g) |
| magnifier      | 1 spring scale (0-500g)  |

*Teacher provides items marked with \**