



## Fernbank Science Center

**Title:** Local Rocks and Minerals (4316)

**Type:** Outreach

**Level:** 3rd Grade

**Length:** 55 minutes

**Location:** Local School

**Limit:** 1 class/period

### **Program Description**

Students are introduced to geology, rocks, and minerals and guided through strategies to identify local minerals based on color, texture, luster, and context. Students then work in groups of 3 to 4 to identify the rocks in a bag of “unknown” samples. Groups may compete to determine who can identify a set of unknowns the fastest. The relationships of local rocks to the region, globe, and tectonic history of the Earth is highlighted. Time permitting, students are introduced to the layers of the Earth (“DeKalb beneath their feet”) and shown rocks representing the mantle and core.

### **Standards**

S3E1(a) explain the difference between a rock and a mineral

S3E1(b) recognize the physical attributes of rocks and minerals using observation (shape, color, texture), measurement, and simple tests (hardness).

### **Vocabulary**

granite	gneiss	schist	amphibolite
igneous	sedimentary	metamorphic	quartz
feldspar	rock	mineral	hornblende
pegmatite	mica	clay	

### **Pre-Visit Activities**

Collect at least three rocks from near your home. Bring them to identify and discuss with the geologist.

### **Post-Visit Activity**

Attached.

### **Resources**

HSP Georgia Science III, Chapter 2, Lesson 2, "What Are the Types of Rocks?"

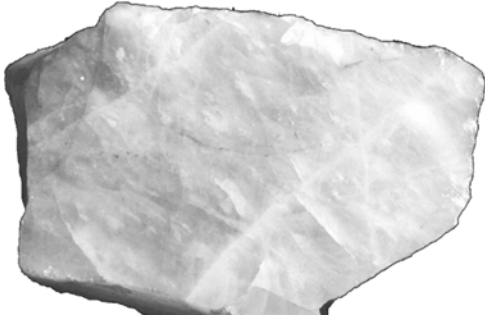
## Local Rocks & Minerals

Name \_\_\_\_\_

### Post-Presentation Review

I. Name each rock illustrated below.

A. \_\_\_\_\_



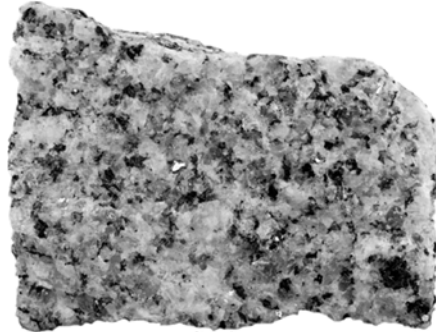
B. \_\_\_\_\_



C. \_\_\_\_\_



D. \_\_\_\_\_



E. \_\_\_\_\_



F. \_\_\_\_\_



II. Is each rock above igneous, sedimentary, or metamorphic?

A. \_\_\_\_\_

B. \_\_\_\_\_

C. \_\_\_\_\_

D. \_\_\_\_\_

E. \_\_\_\_\_

III. Which of the rocks above does **NOT** occur in DeKalb County? \_\_\_\_\_

IV. Open the following link in Google Earth: <http://mrdata.usgs.gov/geology/state/kml/gageol.kmz>

Zoom to DeKalb County, Georgia.

Print a copy of the Geologic Map for DeKalb County.

Place the letter for each rock above on the map in the correct colored rock unit.

