

# **ARIZONA ROCKS!**

## **OUTREACH PRE-VISIT PAGE (GRADES 3-7) 60 minutes**

Arizona Science Center will be arriving no later than 15 minutes before the start of your program(s). **Arizona Rocks!** is intended to be a hands-on introductory geology program that covers:

- Different rock groups (sedimentary, igneous, metamorphic)
- Rock cycle
- Mineral identification techniques

### **PROGRAM NEEDS**

- **The Arizona Science Center's instructor is a guest in your classroom. Class teacher/instructor must remain in room for duration of program for liability reasons. We cannot be responsible for your students.**
- One instructor table at front of room
- Water source readily available
- Limited to 30 participants who will break into 8 groups
- An available whiteboard or chalkboard is preferred
- Student needs to supply his/her own pencil
- If multiple programs are scheduled at your location, it is ideal that the instructor set up in one room and participants be brought in; otherwise allow 15 minutes between programs

### **SCIENCE STANDARDS**

#### **Grade 3:**

S1C1PO1: Formulate relevant questions about the properties of objects, organisms, and events of the environment using observations and prior knowledge.

S1C1PO2: Predict the results of an investigation based on observed patterns, not random guessing.

S1C2PO3: Conduct simple investigations (e.g., related to plant life cycles, changing the pitch of a sound, properties of rocks) in life, physical, and Earth and space sciences.

S1C2PO5: Record data in an organized and appropriate format (e.g., t-chart, table, list, written log).

S1C4PO1: Communicate investigations and explanations using evidence and appropriate terminology.

S6C1PO1: Describe the different types of rocks and how they are formed:

- metamorphic
- igneous
- sedimentary

S6C1PO2: Classify rocks based on the following physical properties:

- color
- texture

**Grade 4:**

S1C1PO3: Formulate predictions in the realm of science based on observed cause and effect relationships.

S1C2PO3: Conduct controlled investigations (e.g., related to erosion, plant life cycles, weather, magnetism) in life, physical, and Earth and space sciences.

S1C2PO5: Record data in an organized and appropriate format (e.g., t-chart, table, list, written log).

S1C4PO1: Communicate verbally or in writing the results of an inquiry.

**Grade 5:**

S1C1PO2: Formulate predictions in the realm of science based on observed cause and effect relationships.

S1C2PO5: Record data in an organized and appropriate format (e.g., t-chart, table, list, written log).

S1C4PO1: Communicate verbally or in writing the results of an inquiry.

**Grade 7:**

S1C1PO1: Classify rocks and minerals by the following observable properties:

- grain
- color
- texture
- hardness

S6C2PO1: Explain the rock cycle.

S6C2PO2: Distinguish the components and characteristics of the rock cycle for the following types of rocks: igneous, metamorphic, and sedimentary.

**Arizona Rocks! is sponsored by Freeport-McMoRan Copper and Gold Foundation**

