

Directions for Metamorphic Rock

Materials:

Waxed paper

Jellybeans

Sugar

Sharp knife

Resealable plastic bags

Sandwich bags

1. Cut the jelly beans in half. Put sugar onto a cutting board. The jelly beans will get sticky, so you will need to keep putting the knife in the sugar. After the jelly beans are cut, put them into a plastic bag and add sugar. Shake them up with the sugar so that they do not stick together.

For the activity, put a small amount of jelly beans into sandwich bags. This will prevent a student from taking too many.

2. Cut the waxed paper into squares about 4×4 inches.
3. For the activity, set out waxed paper squares and jelly bean bags.
4. The students will empty their bags onto the waxed paper squares. A waxed paper square will be placed on top.
5. The students will press the jelly beans together until they merge into each other and cannot be individually distinguished as the original jelly beans. This is harder than you would think. The waxed paper will be pretty well shredded by the time the jelly beans are metamorphosed

Directions for Sedimentary Rock

Materials:

Peanut butter  Check for food allergies

Graham crackers

Canned or homemade frosting

You may want to add: ground nuts, jam, candy

Make sure students wear goggles. 

1. Demonstrate how to layer the materials.
2. This activity can be as complex or as simple as you like.
3. For a shortcut, buy miniature Snickers or Butterfingers candy bars. Cut or break them apart to examine the layers.

Directions for Igneous Rock

Materials:

Chocolate chips

Waxed paper

Microwave oven

Microwave proof container

1. An adult will need to supervise this activity.
2. Place about a tablespoon of chocolate chips in microwave proof container.

3. Place in the microwave for about 20 seconds. Check to see if it is melted. If not, heat by 5 seconds at a time. Burned chocolate will stink up the whole building, but it makes great pumice!
4. Pour onto square of waxed paper.
5. Encourage the students to observe the cooling process.