



## **Chocolate Lava**

**Primary Audience: 3<sup>rd</sup> – 5<sup>th</sup>**

**Description:** Melt and cool fudge to learn about different kinds of lava.

**Key Words:** VOLCANO, LAVA, ROCK FORMATION

### **Materials:**

- Chocolate fudge mix and ingredients listed on box.
- Saucepan
- 2 baking dishes
- Adult as needed

### **Instructions:**

1. Have an adult help you in the kitchen with the stove. Make the fudge mix as written on package.
2. As the fudge begins to boil, pour half of it into a baking dish.
3. Begin to stir the other half of the fudge mix for ten minutes as it begins to cool down.
4. Pour this fudge that is cooled into the second baking dish.

### **What's Going On?**

Two types of lava flow from volcanoes, they are named from the Hawaiian language. The fudge that was put in the first pan was hot, flowed smoothly, and formed a flat surface. This is similar to the texture of pahoehoe lava. Pahoehoe (pronounced pa-hoy-hoy) lava can form lava tubes and an undersea formation called pillow lava. The other fudge that was cooled formed lumps and made a lumpy surface in the pan. This has an appearance like aa lava. Aa (pronounced Ah-Ah) lava produces sharp and twisted rocks that are difficult to walk on.

### **Relevant Ohio Science Content Standards:**

**Earth and Space Sciences: 3.1, 3.2**