

6.-10 year old

## **Volcanoes and geothermal energy**

### **Objectives:**

- Educating students about volcanic activity and how geothermal heat heats water that we then use for heating and bathing.

### **Materials Needed:**

- Map of Iceland
- Myndir frá volcanic base
- Sand & shovel
- Edik, baking soda, food coloring, soap & hot water

### **Lesson structure**

#### **1.Lesson**

Students are taught about volcanic activity and how geothermal heat heats water that we then use for heating and bathing.

Students shown furnaces and how we heat our houses.

The teacher examines a map of Iceland with the students and finds well-known volcanoes with the students.

#### **2.Lesson**

A walk around the local area

Discussion about nearby volcanic bases.

Go to the beach or sandbox and make a volcano out of sand. Vinegar, baking soda and red food coloring are mixed together and the mountain is made to erupt.

#### **3.Lesson**

Students draw a picture of their volcano erupting.

### **Assessment:**

- Checklists
- Pupil discussion