

## Resources

- Flour paste
- Paper towels (for cleanup)
- Plastic container
- Plastic straw
- 150 g modeling dough (3 colors, 50 g of each)
- 50 g sand
- Water

## Description

You are modeling a landscape near a volcano that has erupted several times. Various materials have been deposited in the surrounding area. A different substance represents each material:

- **Modeling Dough:** Magma
  - Different colors represent different types of magma.
- **Ash:** Flour paste
  - Not all of the volcano's eruptions produced ash.
- **Damp Sand:** Small pieces of rock
  - Wind and rain have broken away small pieces of the volcano and moved these to surrounding areas.

Follow the instructions to build up the layers in your landscape and extract a sample.

## Instructions

1. Dampen the sand with a little water.
2. Build up layers in the container.
  - a. Modeling dough (one color)
  - b. Flour paste
  - c. Wet sand
  - d. Modeling dough (a second color)
  - e. Wet sand
  - f. Modeling dough (a third color)
  - g. Flour paste
  - h. Thick layer of wet sand
3. Push a straw vertically into the deepest part of the container.
4. Twist the straw to help loosen the material. Carefully remove the straw, and observe the contents.
5. Clean up.