



# Let's Make a Dome Volcano

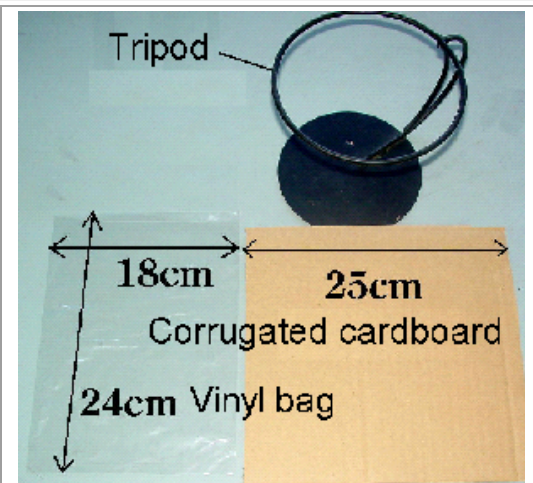


## Point

Wheat flour stickiness looks like magma

## Materials

Corrugated cardboard(25cm×25cm)  
Vinyl bag(about24cm×18cm)  
Tripod(flower stand that can buy all 100 yen apiece)  
Wheat flour(80g)  
Water (50 g)  
Cellophane tape  
Cutter



## Method

### Preparation for Experiment

1 Make a hole which size diameter is 3 cm in center of corrugated cardboard.



2 Put wheat flour (90g) and water(50g) in vinyl bag.



3 Rub the vinyl bag by hand to create artificial underground magma.  
It becomes sticky resistant magma.



4 Let the upper part of vinyl bag out corrugated cardboard hole.  
And stick that to corrugated cardboard with cellophane tape.



5 Squeeze vinyl bag with wheat flour (method 3) by hand lightly and lava (magma appear the surface of the earth) .  
Then magma protrudes higher in corrugated cardboard.




6 Spread soybean flour on corrugated cardboard about 5mm thick. This will be the ground.



**Let's create eruption!**

1 Wring vinyl bag slowly.



2	<p>Observe the state of ground (surface of soybean flour) before and after the lava go out and go out lava shape.</p>		
3	<p>Compare it with Showa Shinzan picture.</p>		

 **Development** Try add to water

◆ Also *Kawayu* sulfur mountain (*Atosanupuri*) and the outskirts of mountain same shape. Let's found another mountain like this shape.

Picture of *Atosanupuri* using [earth science multimedia teaching material] is from Hokkaido High school Science research society research department earth science.

◆ Add water 100g to wheat flour 80g to make magma. What shape of lava will it produce?



 **Information**

**Mountain shape in different viscosity**

◆ If magma have high viscosity. it makes dome state mountain like Showa shinzan, Kawayu sulfur mountain. (lava dome)

◆ If magma have low viscosity, it makes dome state flat volcano like Miharayama that in Izuoshima, Kilauea in H.awaii

◆ Showa shinzan birth by volcano activity at the end of 1943. This volcano becomes today's shape after the ground cracked about a year and 10 months.

