



# Let's find Jewel in Volcanic Ash

•Wash volcanic ash and observe the mineral.



**Point**

**Different mineral**

**from different kinds of volcanic ash**



**Materials**



Magnifying glass  
Volcanic ash  
Pudding cup or bowl  
Kitchen paper  
Eye dropper

Purin cup or bowl



## \*How to wash the volcanic ash\*

1 Put the volcanic ash in the pudding cup (one teaspoon)



2 Add the water.



3 Rub the volcanic ash using finger.



4 Add the water (4/5) and mix it.



5 Wait 5~10 seconds, remove the water.



6 Repeat 2~5times to clean the water.



7 Remove minerals to the kitchen paper and dry them.



## **\*How to observe minerals \***

- 1 Observe minerals using the magnifying glass.
- 2 Separate the different of colors or shapes.
- 3 touch the volcanic ash with the eye dropper, and find out if the mineral is magnetic.

## Progress

- 1 Observe many kinds of volcanic ash.
- 2 There are many minerals in soils, sea sand, and river sand. Let's try to compare the colors and shapes.

## Information

 Volcanic ash includes many minerals.

 This picture is of volcanic ash from Nakashibetsu town. You can see magnetite and quartz.



[Zoom!!!](#)

Observe the sea sand... ([Bekkai's sea sand](#))

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