

FlexiPrep

How to Make a Volcano, About Volcano, Materials, Procedure (For CBSE, ICSE, IAS, NET, NRA 2022)

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How to Make a Volcano

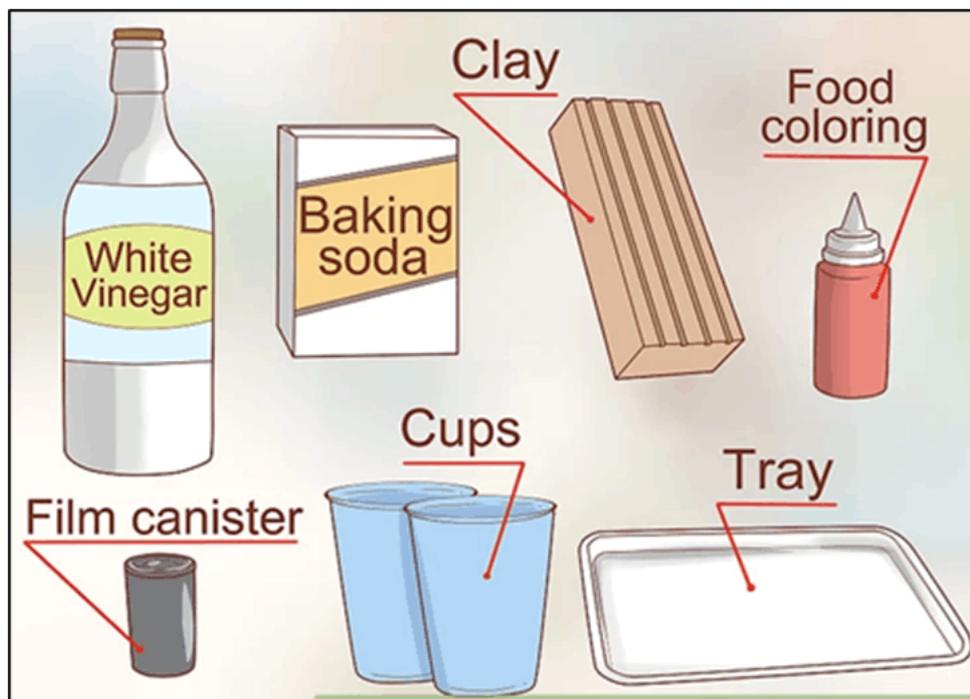
About Volcano

- It is an opening in the surface of the Earth that connects with a reservoir of molten rock and gases deep below.
- As the molten rock is pushed out of the volcano, usually under tremendous force and at a fearsome temperature, the distinctive conical mound of the volcano develops.
- If we build a model Volcano, we can find how something works in the real world but doesn't really test anything.

How to Make a Volcano?

- The volcano model we are going to make is merely a simulation of one of nature's most impressive displays of violence and power and should pose relatively little danger to life.
- Given below is the detailed step by step procedure for the volcano model for school project.

Materials



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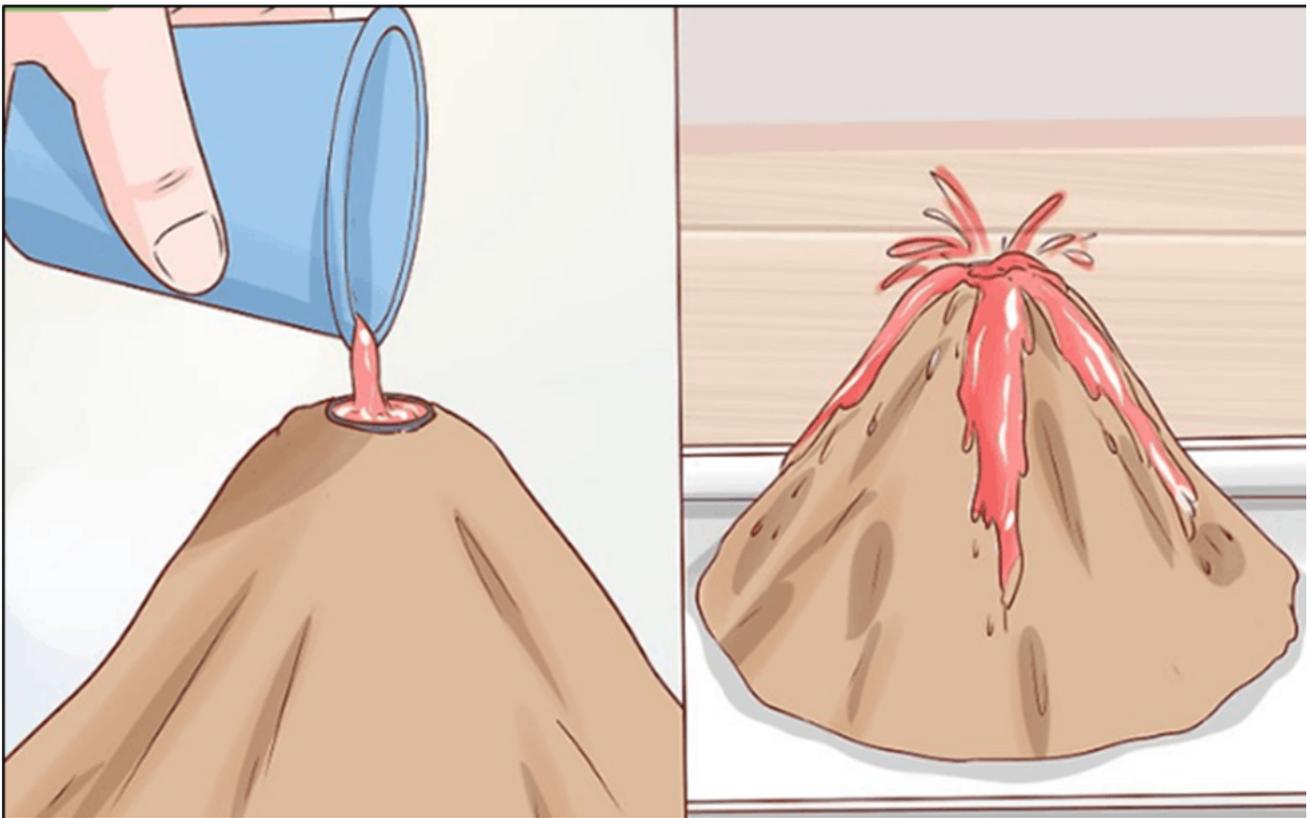
- We will need,
 - Empty film canister
 - Modeling clay
 - Disposable cups
 - Baking soda
 - White vinegar
 - Food coloring
 - A Styrofoam or plastic tray
 - A baby food jar
- Using disposable cups and a tray will allow for faster and easier clean up.

Procedure

- Measure out equal parts baking soda and white vinegar.
- Fill the jar with baking soda and then pour that baking soda into a cup.

- Wipe out the jar to remove any residual baking soda.
- After that fill the empty canister with vinegar and pour that vinegar into a separate cup.
- Be sure to keep the baking soda and vinegar separate at this time so that they do not react before you are ready.
- The total amount of baking soda and vinegar used for the experiment is not important.
- The important part is that you use equal amounts of baking soda and vinegar.
- Color the vinegar with red food coloring.
- Add 2 - 3 drops of food coloring, or enough food coloring to make the desired color.
- The coloring does not affect the reaction that takes place.
- Construct a volcano: Use the modeling clay to build a volcano structure. You can make the volcano as large as you want. The taller your volcano is the more surface your lava will have to flow down.
- Push the jar into the tip of the volcano. Make sure that you have removed the lid and push it down with the open side facing up. Make the top of the jar flush with the top of the volcano.
- Pour the vinegar into the volcano.
- Using the colored white vinegar that you have set off to the side, pour the vinegar into the volcano's center. The vinegar will react with the baking soda and cause an "eruption"
- Stand back as the volcano erupts. While it is not a dangerous reaction, it will be messy.

Volcano



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