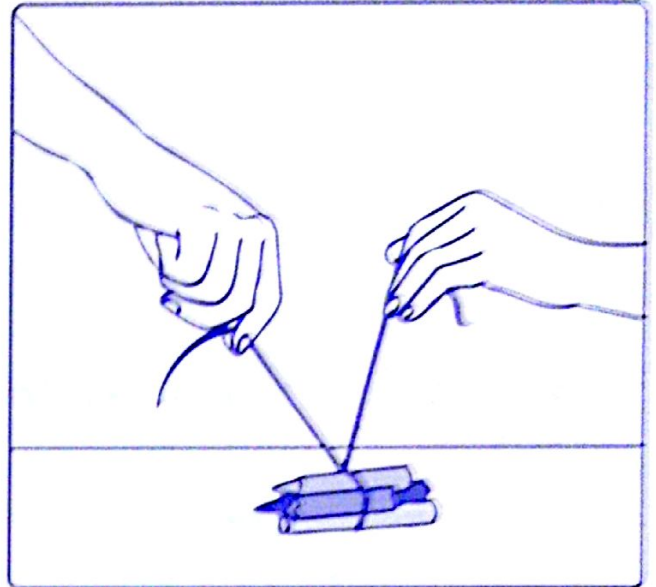
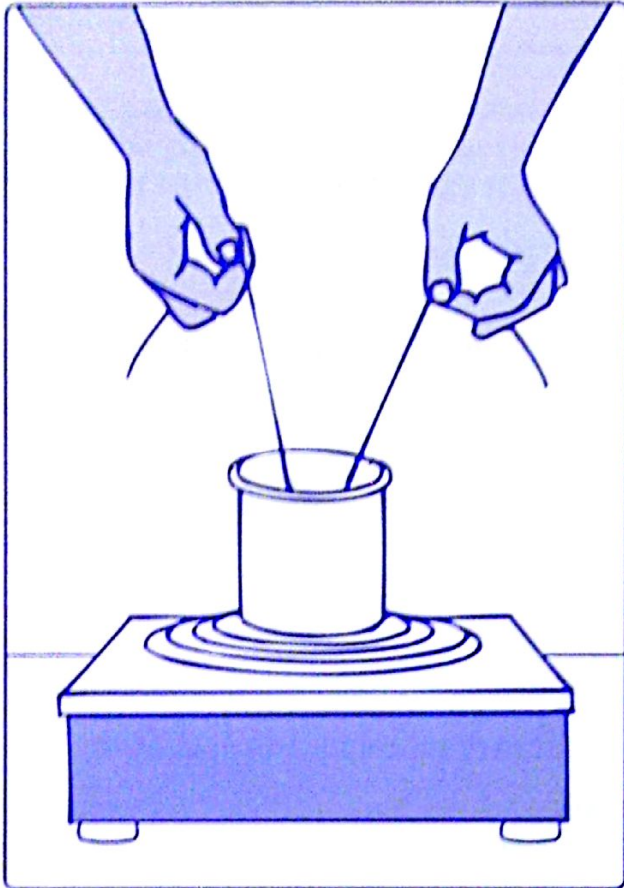
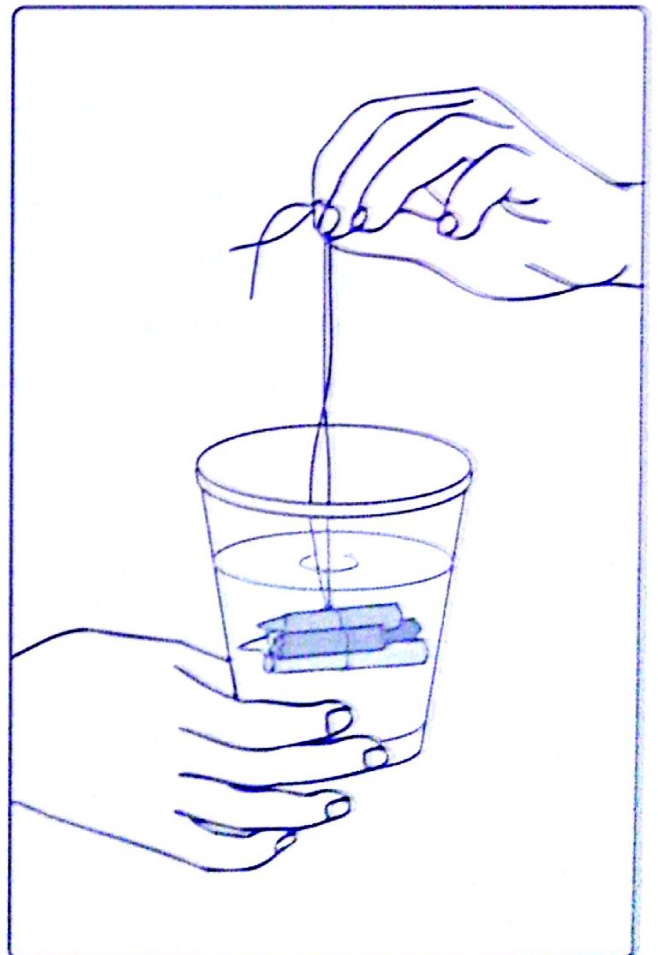


Volcanoes Make Rocks

1. Bring your string to the distribution station. Fold the string in half and dip the loop into the melted wax. Set the string on a paper towel to allow the wax to harden.
2. Peel the paper off the crayons and break them in half. Place the four pieces in a bundle and tie them together with the string.



3. Label the paper cup with your team's name. Fill it half-full with plaster of paris. Add a small amount of water. Stir thoroughly with the plastic spoon. The mixture should be about the consistency of a thick milk shake. Let the plaster sit for a few minutes until it is partially hardened.
4. Sink the bundle of crayons into the plaster of paris. Position the crayons so that they are just below the surface and do not touch the sides or bottom of the cup. Gently tap the cup on the table to force any trapped air bubbles in the mixture to rise to the surface. Set the cup aside overnight.



Volcanoes Make Rocks

5. Put on your safety goggles. Bring your pan to the distribution station and fill it three-quarters full with water. Place the pan of water on the electric hot plate and heat it. Peel the paper cup from around the hardened plaster of paris and place your "volcano" in the water. Give it time to heat through. Then record your observations.

Explain: Why does the melted wax break through the plaster? Why do you think this happened?

To which part of a volcano can each part of the model be compared?

Crayons inside the plaster: _____

Melted crayons that escape: _____

Holes through which the melted crayons escape: _____

How can you explain the location of the "vents" in your "volcano"?
