

MOON SLIME

Problem Will changing the quantity of water in a chemical reaction effect the final product?

Hypothesis *fill in your hypothesis.*

Materials *Each team member will need the following materials:*
1 paper/plastic cup
1 craft stick
1 small zip bag
paper towels

Materials shared by team:

Liquid A (“glue” bottles)
Liquid B (clear-green in Erlenmeyer Flask)
tap water
50 mL beaker
10 mL graduated cylinder

Procedures

1. Measure 15 mL of Liquid A into the 50 mL beaker.
2. Make observations of Liquid A as to smell, looks, feels, etc. and record.
3. Each member of the team is to add a different amount of water to the Liquid A in the beaker according to Table I:

Team Member	1	2	3	4
Amount of Water to use (mL)	5	10	15	20

Table I

3. Add the chosen amount of water from table I to the Liquid A in the 50 mL beaker up to the required amount (15 + X mL of water), stir well with the craft stick, and pour into the paper cup.
4. Repeat observations and record.
5. Measure 10 mL of Liquid B into the graduated cylinder. Have a partner add it evenly to your cup as you constantly stir the resulting solution. Be sure to record observations. [**NOTE: Graduated cylinders are for Liquid B ONLY!**]
6. Continue stirring until there is little liquid left, and then empty the contents of the cup (Moon Slime) onto your desk.
7. Knead the slime for a minute or two until there is an even consistency.
8. Record observations of the changes that took place and the resulting slime.
9. Conduct qualitative observations and record the properties of each group member’s Slime by trying the following:
 - Roll the slime into a sphere and set it in the palm of your hand. Does it keep its shape?
 - Pat the slime between your hands and try to form a thin film. Hold the film at one end and observe.
 - Drop a ball of slime on a clean desk top and observe all that happens.
 - Use a coin to make an imprint in the slime. Describe what happens.
 - Roll the slime into a long cylinder shape and slowly pull apart while holding both ends.
 - Reform the cylinder and pull it apart quickly.
 - Put the slime on the top of an upside down cup in the form of a sphere and observe what happens.
10. Choose one of the following tests to conduct and record the quantitative observations of each group member’s Slime (be sure to repeat each test at least 3 times and find the average for each slime):
 - ⌚ Roll into a ball and place on top of the 10 mL graduated cylinder that has been turned upside down on your desk; time how long it takes to reach the desk top.
 - ⌚ Measure the distance each slime travels in 60 s.
 - ⌚ Hold the slime 50 cm above the desk and time how long it takes to stretch to the desk or break.
 - ⌚ Create your own quantitative test.
10. Store the Moon Slime in the zippy bag to take home. Be sure to remove as much air as possible to prevent the slime from drying out.