

Scientist

A Crazy Colloid

(Experiments, cont.)



5. Bounce test

Hold the mixture 50 cm up from the table / desk. Drop it.

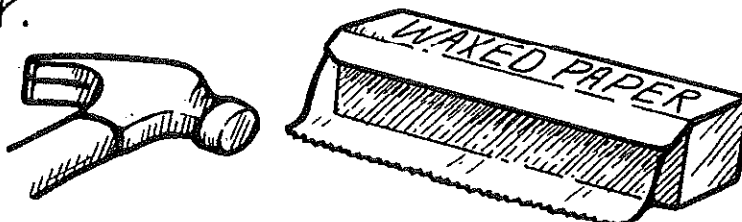
6. Shatter test

Put the mixture in waxed paper on the table / desk. Hit the mixture with a hammer.



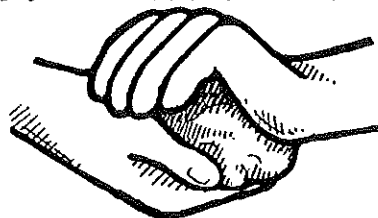
7. Shape test

Try to form the mixture into a ball. Check to see if it holds its shape for 5 seconds.



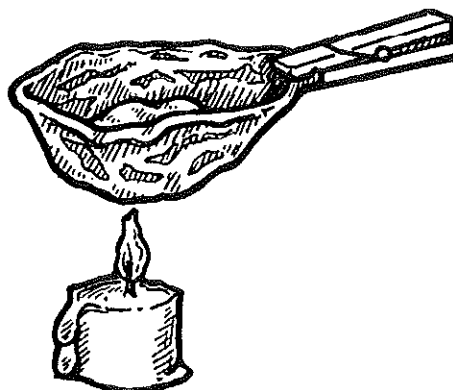
8. Heat test

Make a bowl out of foil. On one side leave a bump where you can clip a clothes-pin. Heat one teaspoon of the mixture in the bowl over a votive candle.



9. Cool test

Let the mixture cool to room temperature.



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Prediction: the mixture is a

Liquid Solid
(circle one)

Observation:

1. You have 5 minutes for free discovery and observation.
Return the mixture to its container at _____ o'clock.
2. Record your observations.

Color: _____

Texture: _____

Shape: _____

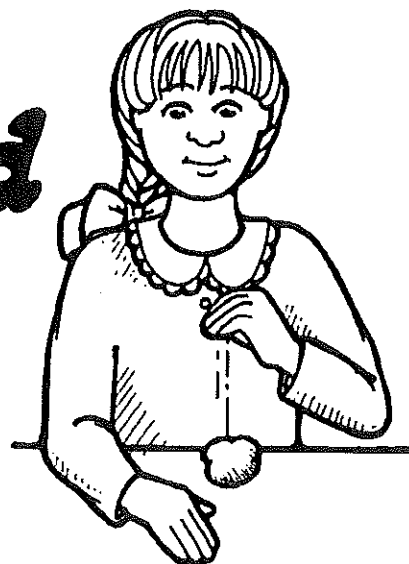
Smell: _____

Other: _____

Scientist _____

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Observation Record Sheet



Test	Observations	Liquid	Solid
1. The quick finger poke test			
2. The slow finger poke test			
3. Conformity test			
4. Pour test			
5. Bounce test			
6. Shatter test			
7. Shape test			
8. Heat test			
9. Cool test			
	Total		

Is this colloid a liquid or a solid? _____

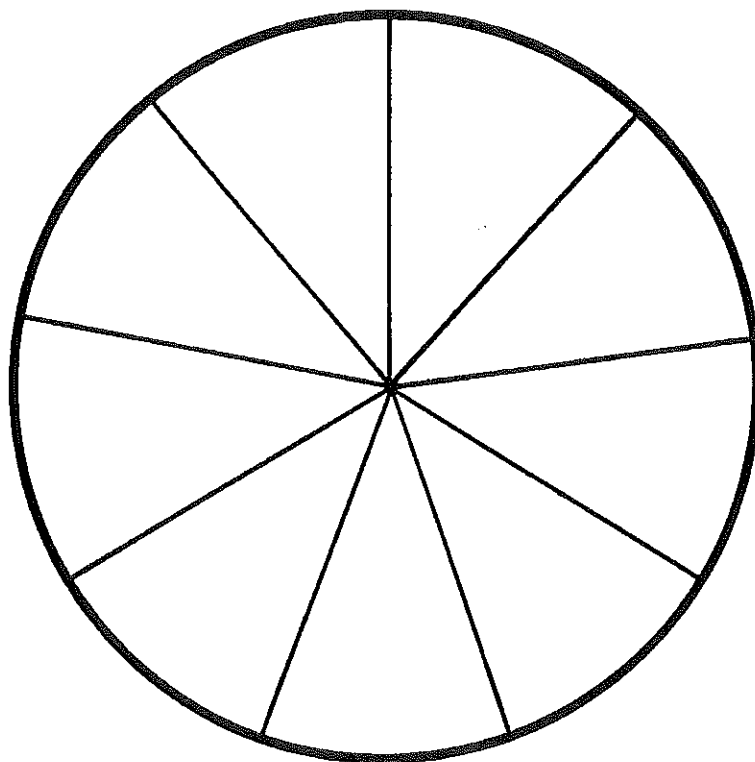
Write a paragraph that supports your conclusion.

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- Color in a section for each test result.
- Use one color for liquid test results, and another for solid.
- If a result falls into both categories fill in half with each color.
- Keep like results together.



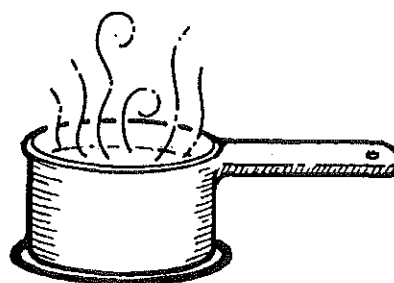
According to your test results is the mixture a liquid or a solid ? Why ?

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Matter: Properties of Liquids and Solids

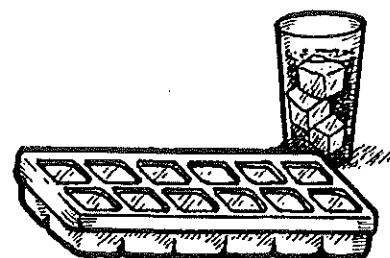
Solids:

- * do not change shape easily
- * will not allow another solid to pass through them easily
- * are usually visible
- * have a definite shape
- * have a definite size
- * become liquid when heated
- * when cooled remain solid



Liquids:

- * change shape easily (take the shape of the container)
- * will allow a solid to pass through easily
- * may be visible or invisible
- * have a definite size (volume)
- * when heated become gas
- * when cooled become solid



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Experiment:

Do each test

Record your results



1. The quick finger poke test

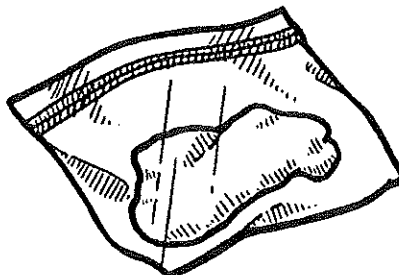
Try to poke your finger into the mixture so that the tip of your finger touches the bottom of the cup. To make sure that this is the quick finger poke test, try to touch the bottom of the cup in 1 second.

2. The slow finger poke test

Try to poke your finger into the mixture so that the tip of your finger touches the bottom of the cup. In order to make sure that this is the slow finger poke test, take 10 seconds to touch bottom.

3. Conformity test

Put the mixture into another container or a plastic baggie. Check to see if the mixture takes the shape of the container or stays in its original shape.



4. Pour test

Try to pour the mixture from one cup to another.