



## REACTION 2: (1 of 2) PRECIPITATES

 25-35 minutes + drying time + questions and journal time

 Follow all safety instructions from LearnLibre.com during the experiment.

### Before the Experiment

Ask an Adult. This experiment involves hot objects that should be handled by an adult who has read and understands all safety considerations found with this experiment at LearnLibre.com.



### Materials

- Beaker
- 20mL vinegar
- Cheese cloth
- Rubberband
- 2 containers that can hold hot liquid
- Measuring cup
- 1 cup dairy milk
- Microwave, hot plate, or stove + small pot
- Colored markers (optional)

### Procedure

1. Take one heatproof container, and secure the cheesecloth over the top with a rubber band.
2. Measure 1 cup of milk, and pour it into your other heatproof container or pot.
3. Using your beaker, measure 20mL of vinegar, and add it into the milk. Observe what happens.
4. Begin heating the mixture of milk and vinegar.
  - Option 1: A minute in the microwave.
  - Option 2: Heat over a hot plate or stove until you see small solid pieces appear.
  - **CAREFUL your mixture will be HOT!**
5. Pour the heated mixture through the cheesecloth, and into the other container.
6. Allow it to cool, then remove the substance from the cheesecloth, and place it on a flat surface to dry overnight.
  - You may need to flip it in the morning and let it keep drying.

## REACTION 2: (2 of 2) PRECIPITATES

### Procedure (continued)

7. Use your markers to decorate your final product!



### Questions

1. What happened when you added vinegar to milk? Did heating the mixture make the change more or less noticeable?
2. What is a precipitate? (Hint: your final product in this experiment is a precipitate).
3. Would this experiment change if you used whole milk v. low-fat milk v. non-fat milk?
4. Would it work with non-dairy milk such as almond milk or oat milk?

[See answers and learn more about how this experiment works by scanning the QR code at the top of the 1st page.](#)

### Clean-up

Wash and dry any tools you used, put materials back where you got them from, clean your work station.

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