

What happens when milk is mixed with other substances?



Scientist's Corner

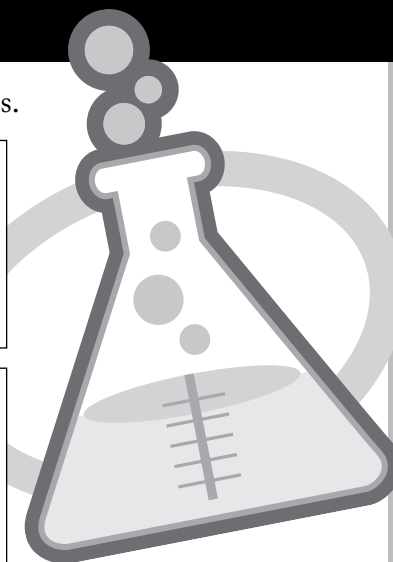
Milk is a liquid that is often mixed with other foods or beverages.

What to Use

- Milk
- Tea
- Water
- Sugar
- Vinegar
- Other substances to mix with milk
- Measuring cup or dropper
- Bowls or jars to mix the liquids

What to Do

Try mixing milk with equal amounts of each of the four other substances in the *What to Use* box. Add one other substance. In the chart, record your observations and inferences.



Mixture (Milk + _____)	My Observations	My Inferences (Why I Think This Happened)

Which of your mixtures were liquid? Which were solid?

Were there different reactions when you added solid substances and acidic substances?
Explain why.

What effect do you think heat has on the mixture of milk and a substance like tea?

Which of your mixtures resulted in irreversible changes?
Why were these changes irreversible?

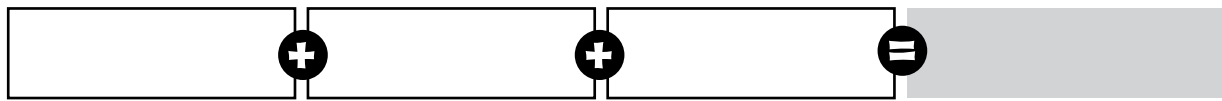
Which mixtures resulted in reversible changes?
Why were these changes reversible?



Play the *It's All in the Mix Interactive App* in the **It's All in the Mix** inquiry page or the **Game Corner** on the *Moo2You* website at www.moo2you.ca. Use the **Mix It Recipe Cards** if you need help to make different dairy products.

What types of ingredients are mixed with milk to make different products?

Create your own equation sheet. Write equations to show the processes and ingredients that you used to make each product. Try using an organizer like the example below:



Add extra boxes to your equation if you use more processes or ingredients.

