

Make Your Own Glue

What you need:

- Powdered milk
- Warm/hot water
- Vinegar
- Baking soda
- Paper towel
- Cup and spoon

What to do:

- 1.** Mix 2 tablespoons of warm tap water with 1 tablespoon of powdered milk in a cup, and stir it until the powder is completely dissolved.
- 2.** Stir $\frac{1}{2}$ tablespoon of vinegar into the milk. The milk will separate into curds (solid lumps) and whey (watery liquid). Continue stirring until the milk is well-separated.
- 3.** Place the paper towel over a cup or sink, and pour the curds and whey into it. Gently squeeze out all the whey and discard it. Put the drained curds back into your cup.
- 4.** Use your spoon to break the curd up into small pieces.
- 5.** Add $\frac{1}{2}$ teaspoon of hot water and $\frac{1}{8}$ teaspoon baking soda to the curd. (Does it foam a bit?) Mix thoroughly until the glue becomes smooth and more liquid. If it is too thick, add a bit more water. If it is too lumpy, add more baking soda.
- 6.** Test your glue by comparing it to store-bought glues. How sticky is it?

Type of Glue	Number of Pennies in Envelope
Home-made paste	
Glue stick	
White glue	