

Milk to Glue

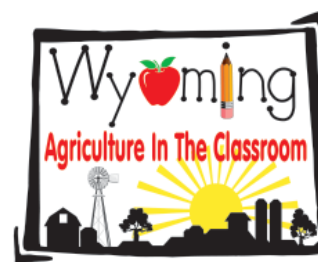
Wyoming Activity

Materials

- 1/2 cup milk
- 2 tsp. vinegar
- 1/4 tsp. baking soda
- Small crock pot
- Small Mixing Bowl

Activity Procedure

1. Pour the 1/2 cup of milk into a small crock pot.
2. Heat the milk slowly. Stir the milk until it is hot but not boiling. Turn off the crock pot.
3. Add 2 teaspoons of vinegar and stir. Lumps will begin to form.
4. Pour off the liquid and rinse the lumps in cold water. These lumps are called casein, which is milk protein.
5. Pour the lumps into a small mixing bowl and add 1/4 tsp. of baking soda.
6. Slowly add a little water and stir until the mixture becomes pasty. You now have milk glue!
7. Store in a covered container in refrigerator to keep from drying out.



Time: 1 Hour

Grade:

Kindergarten -6th Grade

Standards:

Science:

Science As Inquiry: 2.2

History & Nature of Science
In Personal and Social
Decisions: 3.1A, 3.1B,

Social Studies:

People, Places, and
Environments: 5.4

