

LET'S MAKE PLASTIC WITH MILK AND VINEGAR!

What is this experiment?

You'll be able to make a material just like plastic using milk and vinegar!

What you will need:

- 1 cup milk
- 4 tablespoons vinegar
- Sharpies or acrylic paint
- Cookie cutters
- Strainers
- Paper towels

Instructions:

- 1) Add 1 cup of milk to a microwave safe bowl and heat for 90 seconds.
- 2) Mix in 4 tablespoons of vinegar and stir for 60 seconds.
- 3) Pour into a strainer and press out all the milk.
- 4) Press paper towel into the strainer to remove leftover milk.
- 5) Lay out a piece of paper towel, cut the vinegar milk into an arrowhead or similar shape using a butter knife or cookie cutter. Let it set for 48 hours.
- 6) Wait the 48 hours and color with a sharpie. All done!

What is the science behind this experiment?

When you add milk and vinegar together, there's a protein found in milk called **casein** that changes. It turns into something like plastic once you strain it out!

What was your favourite part of this experiment?