

# Try This Activity

# **Making an Organic Compound**

Organic chemistry involves taking carbon-based compounds, like oil, and reacting them with other reagents to form products with unique and usable properties.

#### **Purpose**

You will use chemical reactions to produce a useful substance from a carbon-based material.

#### **Materials**

- 30 mL of white glue (This is your carbon-based raw material.)
- 3 mL of powdered borax (This is the reagent that will chemically change the carbon-based raw material.)
- plastic cup (or plastic resealable lunch bag)
- spoon
- source of running water

#### **Procedure**

- step 1: Pour 30 mL of white glue into a plastic cup or plastic bag.
- step 2: Add 3 mL of powdered borax to the glue.
- **step 3:** Use a spoon to stir the mixture until it becomes sticky.
- **step 4:** Take the sticky product into your hands and run it under water. Use your hands to shape the sticky material into a ball.
- step 5: Gently dry the ball.
- **step 6:** You just made your first organic compound. Explore the properties of the compound you just created. Consider flexibility, ductility, elasticity, conductivity, adhesiveness, cohesiveness, tensile strength, and permeability.

#### **Analysis**

Copy the following table into your notebook. You will need more room than what is shown here. Complete the table by choosing a few of the properties listed in step 6 of the procedure or any property you can think of that is not listed.

### PROPERTIES OF AN ORGANIC COMPOUND

Property of Compound	Use as a Finished Product	Potential Drawbacks	Tests to Further Assess Possible Development

# **Science Skills**

Performing and Recording

## **Photo Credits and Acknowledgements**

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**Legend:** t = top, m = middle, b = bottom, l = left, r = right

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