

Matter Lab

Sucrose and Water

Take a small scoop of sucrose and add it to 50 mL of water and stir. Be sure to note the original physical properties of the substances and note any chemical or physical changes (these may or may not be present).

Physical Properties

Physical Changes

Chemical Changes

Magnesium Sulfate and Ammonia

In a 50 mL beaker add approximately 10 mL of ammonia. In a graduated cylinder add 10 mL of magnesium sulfate solution. Note the physical properties of each solution. Add the magnesium sulfate to the ammonia and stir, noting the physical and chemical changes (if any).

Physical Properties

Physical Changes

Chemical Changes

Filtration (describe the process, then filter your products and dispose of them)

Combustion of Magnesium

Turn on the gas and light the Bunsen burner. Take a small strip of magnesium (Mg) and hold it in the flame using crucible tongs. Once lit the magnesium should be dropped into the evaporating dish. Turn off the flame and make note of the properties and changes.

Physical Properties (before)

Physical Changes

Chemical Changes

If 0.032 g of Mg reacts to form 0.051 g of magnesium oxide, how many grams of oxygen reacted?

Distillation

Draw a picture of the distillation apparatus and explain how the process works.