

The following is a comprehensive, lesson-by-lesson list of the materials that you will need for demonstrations and other activities in the Chemistry lessons.

The materials in the following box are needed for many activities.

*= optional material

Frequently Used Materials

- safety goggles
- markers
- scissors
- paper
- colored pencils

Module 1:

1.1.2 States of Matter

- any household or craft supplies

1.2.3 Unplug: Density Column

- light corn syrup
- water
- vegetable oil
- dish soap (blue)
- rubbing alcohol
- lamp oil
- honey
- graduated cylinder or tall skinny glass cup or vase
- food coloring
- 7 plastic cups (must hold at least 9 oz)

Module 2:

2.1.2 Unplug: Making a Model of an Atom

- any household or craft items

2.2.3 Unplug: The Wave Nature of Light: Interference

- scissors
- manila folders
- thumbtack
- masking tape
- aluminum foil
- white poster board or cardboard
- flashlight

Module 3:

3.1.1 Unplug: Design Your Own Periodic Table

- color drawing materials or
- magazines
- scissors
- glue

3.2.3 Unplug: Lewis Structures

- household, craft, or food/candy items

Module 4:

4.1.1 The Formula for Delicious

- calculator
- conversion sheets (included)
- cookbooks

4.2.2 Percentage Composition

- 1 small bag of small, round, and multicolored milk chocolate candies
- 1 box of macaroni and cheese (must be a box with a few different shapes included)
- 2 paper plates

Module 5:

5.1.2 Unplug: Using Models to Balance Equations

- gumdrops of at least 4 different colors
- toothpicks

5.2.3 Unplug: Limiting Reactants in a Cookie Recipe

- $\frac{1}{2}$ c sugar
- $\frac{1}{2}$ c brown sugar
- 1 $\frac{1}{3}$ stick margarine (at room temperature)
- 1 egg
- $\frac{1}{2}$ tsp salt
- 1 tsp vanilla
- $\frac{1}{2}$ tsp baking soda
- 1 $\frac{1}{2}$ c flour
- 1 $\frac{1}{3}$ c chocolate chips
- mixing bowl
- mixing spoon
- measuring spoons and cups
- cookie sheet
- oven preheated to 350°F

Module 6:

6.1.2 Unplug: Liquids

- paper
- colored pencils/pencil

6.2.2 Unplug: Charles's Law Balloon Experiment

- 2 balloons
- freezer
- hot day or lamp
- sewing measuring tape or piece of string and ruler