

# APPENDIX C

## A COMPLETE LIST OF LAB SUPPLIES

### Module 1

From the laboratory equipment set:

- Test tube rack
- Three test tubes
- Four medicine droppers
- Phenolphthalein
- Safety goggles

From your home:

- White vinegar
- Clear household ammonia (For best results, this should have been purchased fairly recently. It can be found with the household cleaners at most supermarkets.)
- Five white Styrofoam cups (The smaller they are, the better.)
- Rubbing alcohol (This is used only for cleanup, and it might not be necessary at all.)

### Module 2

From the laboratory equipment set:

- Two test tubes
- Two test tube caps
- Chemical scoop
- Plastic dropper
- Cobalt chloride
- Sodium ferrocyanide
- Ferric ammonium sulfate
- Safety goggles

From your home:

- Paper towel (**Do not** use a regular towel.)

### Module 3

From the laboratory equipment set:

- Cobalt chloride
- Chemical scoop
- Test tube
- Cap for test tube
- Q-tip
- Safety goggles

From your home:

- White paper (preferably without lines)
- Hair dryer

#### Module 4

From the laboratory equipment set:

- Cobalt chloride
- Naphthalene
- Ammonium chloride
- Copper sulfate
- Sodium thiosulfate
- Sodium ferrocyanide
- Two plastic test tubes
- Test tube rack to hold the test tubes
- Chemical scoop
- Medicine droppers
- Safety goggles
- Filter paper
- Funnel
- Plate with all of the depressions in it

From your home:

- Someone to help you
- Water
- Heat and container that you can use to boil water
- A small glass (like a juice glass)
- A Styrofoam cup
- A white piece of paper (no lines)
- Two small plates (They should **not** be disposable plates.)
- A desk lamp with an adjustable neck
- Magnifying glass (A microscope works even better, if you have one.)
- Distilled water (Available at any supermarket)

#### Module 5

From the laboratory equipment set:

- Sodium sulfate
- Two test tubes with caps
- Small funnel
- Filter paper
- Clear plastic plate with depressions in it
- Plastic droppers
- Safety goggles
- Three strips of chromatography paper (The rectangular, white paper that is in a bundle.)

From your home:

- Water
- Pan to boil water in
- Ice
- Stove
- Two Styrofoam cups
- Thermometer (It must read from 0.0 °C to 100 °C)
- Salt
- Tablespoon
- Small saucepan
- Saucepan lid or frying pan lid larger than the saucepan used
- Large bowl (It should not be plastic, as it will get hot.)
- Potholders
- Zippered plastic sandwich bag
- Three small glasses
- Four paper clips
- Plate
- Pencil
- Tape
- Blue food coloring
- Yellow food coloring
- Green food coloring
- Liquid dish soap
- Vegetable oil
- Two bowls

### Module 6

From the laboratory equipment set:

- Filter paper
- Funnel
- Four test tubes
- Test tube caps
- Test tube rack
- Potassium iodide solution
- Calcium chloride
- Copper sulfate
- Sodium sulfate
- A dropper
- Chemical scoop
- Safety goggles
- The chemicals from the laboratory equipment set

From your home:

- Stove
- Water

- Saucepan
- Baking soda
- Table salt
- Two glasses
- Measuring cup
- $\frac{1}{3}$  measuring cup
- Spoons for stirring

### Module 7

From the laboratory equipment set:

- Universal indicator solution and reference sheet for pH
- Three test tubes
- Test tube rack
- Two test tube caps
- A dropper
- Chemical scoop
- Safety goggles

From your home:

- Baking soda
- Distilled water
- Clear soda pop (Sprite<sup>®</sup> or 7-Up<sup>®</sup>, for example)

### Module 8

From the laboratory equipment set:

- Universal indicator solution and reference sheet for pH
- Two test tubes
- Test tube rack
- Two test tube caps
- Three droppers
- Chemical scoop
- Safety goggles

From your home:

- Baking soda
- Distilled water
- Clear vinegar
- Clear soda pop (Sprite<sup>®</sup> or 7-Up<sup>®</sup>, for example)

### Module 9

From the laboratory equipment set:

- Depression plate
- Copper sulfate
- Chemical scoop

- Strip of copper
- Strip of zinc
- Dropper
- Safety goggles
- Two test tubes
- One test tube cap
- Test tube rack
- 9-volt battery cap
- Dropper

From the supermarket:

- Distilled water

From your home:

- Paper towel
- Scissors
- Salt
- Water
- Aluminum foil
- Small glass
- Voltmeter (optional)
- 9-volt battery

### Module 10

From the laboratory equipment set:

- Strip of zinc
- Copper sulfate
- Calcium chloride
- Three test tubes
- Two test tube caps
- Chemical scoop
- Safety goggles

From your home:

- Distilled water
- Vinegar

From the hardware store:

- Steel wool, sandpaper, or some other form of abrasive

Module 11

From the laboratory equipment set:

- Sodium thiosulfate
- Potassium iodide
- Five droppers
- Starch packing peanut
- Two test tubes
- Test tube cap
- Test tube rack
- Safety goggles

From the supermarket:

- Hydrogen peroxide solution
- Clear vinegar

From your home:

- Measuring  $\frac{1}{2}$  teaspoon
- Measuring cup
- Distilled water
- Four small glasses (like juice glasses)
- Stopwatch
- Someone to help you

Module 12

From the laboratory equipment set:

- Polyvinyl alcohol adhesive
- Borax
- Chemical Scoop
- Test tube
- Test tube cap
- Funnel
- Safety goggles

From your home:

- Measuring tablespoon
- Measuring  $\frac{1}{4}$  teaspoon
- Two plastic or Styrofoam cups
- Food coloring (optional)
- Spoons for stirring
- Water
- Plastic trash bag (Try to get a white one.)
- Scissors
- White school glue (like Elmer's glue)
- Plastic or Styrofoam cup
- Old spoon

### Module 13

From the laboratory equipment set:

- Sodium carbonate
- Calcium hydroxide solution (It's labeled as "Lime Water Solution" in the kit.)
- Copper sulfate
- 2 test tubes
- Test tube rack
- Depression plate (the clear plastic thing with all of the wells in it)
- 4 plastic droppers
- Safety goggles

From your home:

- Cream of tartar (In supermarkets, it can be found with the household spices or with baking powder.)
- 2 plastic or Styrofoam cups
- Hot water
- Small plate or bowl
- Bowl (It needs to be big enough for the depression plate to fit inside.)
- Toothpick
- Vinegar
- Teaspoon
- Tablespoon
- Measuring cup
- Sugar
- Packet of active dry yeast (can be purchased at a grocery store)
- Glass that holds at least one cup of water

