

Items Needed To Complete Each Lesson

Every child will need his own notebook, blank paper, lined paper, and colored pencils.

Lesson 1

- ◆ A large assortment of shoes
- ◆ Leaf from a plant
- ◆ Paper towel
- ◆ Water (used in many lessons)
- ◆ An empty “copy paper” box, or shipping box
- ◆ Aluminum foil (approximately 10-15 feet)
- ◆ Electrical cord
- ◆ A light socket with plug
- ◆ Plastic plate or lid (such as the lid to an oatmeal, large yogurt, or sour cream container)
- ◆ Glue (used in many lessons)
- ◆ Scissors (used in many lessons)
- ◆ A 15-watt fluorescent spiral light (Most stores such as Wal-Mart carry these lights.)
- ◆ Peat moss
- ◆ Seeds for the plants you have decided to grow
- ◆ Containers for your plants (Styrofoam cups will work, but small plant pots are ideal.)
- ◆ Saucers or plastic lids
- ◆ Small paper bags
- ◆ String
- ◆ Glycerin soap bars for soap making (You can order these from any soap-making supplies store.)

- ◆ Glass measuring cup or bowl
- ◆ Soap mold (A disposable plastic container works great, but fancy molds are available for a few dollars at any craft store.)
- ◆ Olive oil or Vaseline[®]
- ◆ Dried herbs that you grew, and any other additives such as *Aloe vera*, vitamin E, cold-pressed olive oil, or ground oatmeal
- ◆ Craft sticks for stirring
- ◆ Fragrance: essential oils or fragrance oils found at health food stores
- ◆ Microwave or double boiler

Lesson 2

- ◆ A magnifying glass (used in many lessons)
- ◆ Sunflower seed
- ◆ Several bean seeds
- ◆ A pad of paper (You can staple pieces of paper together to make one if you don't have one.)
- ◆ Three plastic Ziploc[®] bags
- ◆ Three paper towels
- ◆ Three or more turnip seeds (or bean seeds)
- ◆ Tape (used in many lessons)
- ◆ A ruler (It should read centimeters.)

Lesson 3

- ◆ A flower (This cannot be a composite flower. It must have visible stamens and a carpel, such as the flower pictured on page 39.)
- ◆ A piece of paper
- ◆ An adult with a knife
- ◆ Construction paper (a bright color)
- ◆ Play-Doh[®], clay, or salt dough (1 cup of flour, ¼ cup salt, ¼- ½ cup water)
- ◆ Cotton swabs (such as Q-tips[®]) or pipe cleaners
- ◆ A fresh flower
- ◆ A box that can close
- ◆ Borax

Lesson 4

- ◆ Two flowers that are still on their plants. (They should be on two separate plants of the same type. If you have a squash plant, you only need one flower.)
- ◆ A cotton swab (like a Q-tip[®])
- ◆ Seeds for plants that butterflies like to eat and lay eggs on (See pp. 69-70 for plants that will work for butterflies in your area.)

Lesson 5

- ◆ Burr
- ◆ A file folder to serve as the game board
- ◆ Index cards
- ◆ Colored pencils
- ◆ Different nuts or pods to use as game pieces (peanut, walnut, pecan, acorn, for example)
- ◆ A six-sided die
- ◆ A squash or medium-sized pumpkin
- ◆ An adult with a sharp knife
- ◆ A dandelion tuft
- ◆ A samara
- ◆ A piece of paper
- ◆ A measuring device such as measuring tape or a ruler

Lesson 6

- ◆ Two plants (any kind)
- ◆ A plastic sandwich bag
- ◆ A clothespin
- ◆ A living plant that is not an evergreen
- ◆ Field guides that identify plants in your area.
- ◆ An adult
- ◆ A leaf or leaves
- ◆ A stove
- ◆ A pot for boiling
- ◆ 3 tablespoons of washing soda (You can find this in the laundry section of the grocery store.)
- ◆ Gloves
- ◆ A spatula
- ◆ Paper towels

Lesson 7

- ◆ 2 carrots
- ◆ A knife
- ◆ 1 cup of water
- ◆ Blue food coloring
- ◆ A bulb from a plant (The best bulbs to force are paper white narcissus and hyacinths. Other bulbs will work, but do some research, because not all bulbs force easily.)
- ◆ A pot of soil
- ◆ A thermometer that reads in the 40° to 60° F range

Lesson 8

- ◆ A stalk of celery with the leaves still on it.
- ◆ Cup
- ◆ Food coloring (red or blue)
- ◆ Clay or Play-Doh[®]
- ◆ Two paper or Styrofoam[®] cups with lids (You should not be able to see light through them.)
- ◆ Two bean seeds
- ◆ Two peat pellets for germinating seeds
- ◆ A sharpened pencil
- ◆ Black paint or black permanent marker
- ◆ Black paper

Lesson 9

- ◆ A 12-inch ruler
- ◆ Someone to help you
- ◆ Measuring tape or yardstick

- ◆ A tall tree
- ◆ Field guide that identifies trees (Suggestions are given on p. 134.)
- ◆ A crayon with all the paper removed
- ◆ Plain white paper
- ◆ Tacks (optional)

Lesson 10

- ◆ Two plastic sandwich bags
- ◆ Two clothespins
- ◆ Pinecone
- ◆ Oven preheated to 250 degrees
- ◆ Bucket of cold water

Lesson 11

- ◆ Paper
- ◆ Several fern fronds
- ◆ Several colors of paint
- ◆ A paint brush or sponge
- ◆ A fern frond with sori
- ◆ A paper towel
- ◆ A hardcover book

Lesson 12

- ◆ A coat hanger
- ◆ Yarn
- ◆ Trees with lichen on them, preferably in different places

Lesson 13

- ◆ A cereal Box
- ◆ Yarn or ribbon
- ◆ A hole puncher
- ◆ Fabric or construction paper for the cover