Life Science Supply List

CHAPTER 1

- rich soil
- seeds: sunflower, corn, bean, radish (Use fresh seeds for best results.)
- 20 light-weight, disposable plastic cups
- a few dozen tiny scraps of paper
- large tray or planter box, about 18" × 24" (A temporary box can be made from a shallow cardboard box lined with a large plastic trash bag.)
- 640 grams of change (for instance, 128 nickels)
- scissors

CHAPTER 2

- microscope, slide and slip
- small scraps of a variety of different types of paper (for instance, colored construction paper, laser paper, handmade paper, a napkin, newspaper)
- small piece of paper with printed words
- ruler to measure millimeters

CHAPTER 3

- microscope, slide and slip
- wing of a dead butterfly or moth
- eyedropper
- paintbrush or finger

CHAPTER 4

- microscope, slide and slip
- table salt
- small drinking glass
- eyedropper

CHAPTER 5

- drinking glass or mug
- raw egg in shell
- vinegar
- spoon
- microscope, slide and slip
- piece of raw onion (white or yellow)
- eyedropper
- tincture of iodine or Lugol's solution (optional)
- two potatoes
- 1/4 cup salt
- plastic wrap
- paring knife
- cutting board
- two small bowls
- 1-cup measuring cup
- spoon

CHAPTER 6

- 125-ml bottle of liquid nutrient agar
- five disposable petri dishes
- household bleach
- permanent marker
- q-tips
- stove
- saucepan
- tape
- five zip-lock plastic bags

CHAPTER 7

- microscope, slide and slip
- pond water or seawater
- jar or bucket
- eyedropper

CHAPTER 8

- two freshly picked, mature mushrooms (Their gills must be visible when they are picked.)
- one sheet of white paper
- one sheet of black paper
- microscope, slide and slip
- eyedropper
- active dry yeast
- sugar
- small bowl

CHAPTER 9

- microscope, slide and slip
- green algae
- transparent glass or jar
- tweezers
- eyedropper
- Lugol's solution or tincture of iodine

CHAPTER 10

- stalk of celery
- paring knife
- tall drinking glass
- food coloring (blue or red)
- spoon
- microscope, slide and slip
- eyedropper
- flower petal
- leaf

Continued...

- root hair
- clear nail lacquer (Nail *polish* or *enamel* is too thin, and tends to stick to the leaf.)
- a sturdy leaf that is not covered with "hairs" (Leaves from a rose bush work well.)

CHAPTER 11

- two small cacti of different varieties (For best results, choose cacti with thick, barrel-like stems.)
- sharp paring knife
- string or rubber bands
- gardening gloves
- microscope, slide and slip
- spines from two or more types of cacti
- tweezers

CHAPTER 12

- preserved animal for dissection
- household cutlery or dissection kit

CHAPTER 13

- microscope, slide and slip
- feather
- eyedropper

CHAPTER 14

- active dry yeast
- sugar
- five identical, empty water bottles with tight-fitting caps
- five standard balloons of the same size
- five rubber bands
- permanent marker
- measuring spoons
- sheet of paper
- 15-in piece of string
- centimeter ruler

CHAPTER 15

- cracker
- piece of cheese
- slice of apple
- pat of butter
- peanut
- Lugol's solution or tincture of iodine
- eyedropper
- a small amount of: meat (cooked or raw), bread, milk, carrot (or another vegetable), apple (or another fruit), table sugar
- Benedict's solution
- saucepan
- one or more glass test tubes

CHAPTER 16

- microscope, slide and slip
- tincture of iodine or Lugol's solution
- toothpick
- eyedropper

CHAPTER 17

- cooked chicken bone
- jar or glass
- white distilled vinegar

CHAPTER 18

- cooked rice
- Benedict's solution
- at least one glass test tube
- saucepan
- knife
- spoon

CHAPTER 19

- microscope, slide and slip
- drop of blood

CHAPTER 21

- microscope, slide and slip
- different types of hair: straight, curly, brown, blonde, thin, thick, etc.

CHAPTER 23

- two paperclips
- centimeter ruler

CHAPTER 25

- centimeter ruler (at least one foot long; a meter stick is ideal)
- four friends or family members

MINIATURE ECOSYSTEM

- ten-gallon tank
- clean water (from stream, pond, or well)
- clean soil
- small sample of animal and plant life (including snails)