

Classic Science: Elementary Life Science Materials List

Chapter 1

One shoe-box, opaque bag, etc...
One handful of rocks
One handful of fruits, vegetables,
flowers, etc...
One handful of metal objects (screws,
bolts, etc...)
One handful of leaves
Newspapers and/or magazines with
lots of pictures to cut out
Scissors
Pencil/pen
Glue
Paper

Chapter 2

Paper and pencil

Chapter 3

Old newspaper
Blender
Water
Cornstarch
Window screen (or stretched out
pantyhose!!!)
Wax paper
Rolling pin or large spoon
Large pan
Large bowl
Paper or plastic bag

Chapter 4

Paper
Pencils/crayons/markers/paint
Paper punch (optional)
Old postcard, index card or manila
folder
Aluminum foil
Needle
Toothpick
Petroleum jelly
Eye dropper or drinking straw
Glue
Tap water
Scissors
Water sample from a pond
Flashlight

Chapter 5

Water
Thermometer
Small bucket of soil
Lamp or sunny area
Freezer
Two small sponges
Rubberbands
Two bowls
Freezer

Chapter 6

Black socks, white socks and socks of different colors
Thermometer
Cardboard square
Drinking straw
Tape
One-two foot piece of string
Spool of thread, action figure, etc (to be used as a weight)
Measuring tape

Chapter 7

One plastic shoebox
Two cups of fresh water
One-half cup of small gravel stone
One cup of garden dirt
Four toothpicks
One solid cubic piece of clay, about 3 inches on a side
Freezer
1 cup sawdust
 $\frac{1}{2}$ cup flour
 $\frac{1}{4}$ cup water
Two Large Baggies (Gallon-size works well)
Vegetable shortening (enough to fill a large baggie)
Bucket of ice water
Two small sealable baggies (sandwich or quart-size works fine)

Chapter 8

Warm water
Salt
Blue food coloring (any color will work!)
Two drinking glasses
Pickling salt (spice aisle of grocery stores)
Three (or more) cups
Water
Clear drinking straw
Food coloring
Spoon

Chapter 9

4" x 6" index card (or a piece of heavyweight paper)
Tape
Sharpened pencil, pen, nail (to be used to poke a hole)
Two inch piece of drinking straw
Approximately three feet of fishing line
Hair dryer
Measuring tape

Chapter 10

A paper towel
Scissors
One baby food jar and lid (or other similar container)
Plastic wrap
12 radish seeds
Popcorn
Oil/butter (optional)
Popcorn popper/pan

Chapter 11

Thermometer
Balloon and rubber band
Soup or juice can with ends removed
1/4-inch square of smooth aluminum foil or a tiny mirror
Glue stick or rubber cement
Flashlight with narrow beam (laser pointers work great!)
Radio or tape player

Chapter 12

Four strips of paper (2" x 8 ½")
One strip of paper (2" x 11")
Glue or tape
Masking tape
Marble
Book, board or other object to be used as a ramp
Cooking spray
Measuring tape

Chapter 13

Several different kinds of donuts
Sealable baggies
Paper/pencil
Transparent or masking tape
Pencil and paper
Clothing with buttons and zippers
Sock
Shoe with laces
Coin
Balloon
Toothbrush
Hairbrush or comb
Jar with a lid

Chapter 14

Two white carnations (one or more)
Drinking glass for each carnation
Food coloring
Scissors
Scissors
Bowl filled with water
Clock with second hand

Chapter 15

Teaspoon measure
Active dry yeast
Two bottles of soda pop
Water
Two "helium quality" balloons (not the small water-balloon size!)
Bread
Potato (any other vegetable will do!)
Moist paper towels
Sealable baggies

Chapter 16

Clear tennis ball container (with cap)
Mud from the edge of a shallow pond
Water
¼ newspaper page (shredded)
One raw egg
Bowl
Spoon
Saucepan and stove
Packet of unflavored gelatin
Sugar
Beef bouillon
Four foil muffin cups and muffin pan
Measuring spoons
Four sealable sandwich baggies

Chapter 17

Container of birdseed
Small cup
Three different tools:
Scissors, Pliers, Clips, Tweezers,
Garden shears, Fireplace tongs, BBQ
tongs, etc...
Paper and pencil
Coloring materials

Chapter 18

One full piece of newspaper
Several dozens of small cutouts from
colored paper (paper punched holes
work great)
Several dozen small cutouts from a
piece of newspaper
Empty one quart container
Old towel/paper towels
Masking tape
Bucket of water
Measuring cups (1 cup and 1/3 cup)

Chapter 19

10 small cups or containers
Hydrogen peroxide
Bleach
Eyedropper or straw
One cup of potting soil
Three small containers
Package of radish seeds
Cotton yarn or small strips of cloth
Water
Nail
Small bowl

Chapter 20

Story cards (see attached)
Paper
Pencils/pens/crayons/markers
Pencil
Typing/notebook paper
20 small objects like buttons, beans,
etc.

Chapter 21

Several hard candies of different
flavors (lollipops will work too!)
Glass of water
Blindfold (optional)
Several cotton swabs
Several kinds of liquid samples for
each of the four flavors (i.e. Vinegar=
sour, Strong coffee = bitter, Syrup =
sweet and Salt water = salty)
Glass of water

Chapter 22

small paper cup
2 feet of string
one toothpick
small source of water
Pencil
Notebook/typing paper
Measuring tape

Chapter 23

Blindfold
Two jars containing $\frac{1}{4}$ cup popcorn or a
few pebbles
Paper/pencil

Chapter 24

Ten sets of paired cards with matching faces
Clock or watch with second hand
Paper and pencil
Thesaurus (optional)

Chapter 25

Two plastic rulers (the ones with three holes in them)
Tape measure or another ruler
One paper clip
Two feet of string
One metal brad
Clear tape
Measuring tape
Clock with second hand

Chapter 26

Five soda bottles with screw-on lids
Electrical tape
Two large clips (called "bulldog clips" you can find in an office supply store)
Two plastic funnels
Two pieces of (each 1 $\frac{1}{2}$ feet long) of clear plastic tubing
Two pieces of 4" clear plastic tubing
Red and blue food coloring
Masking or duct tape
Modeling clay or bubble gum
Two balloons
Two rubber bands
One small strip of wood(1/4" x 4-6")
One drinking straw
Glue

Chapter 27

Light corn syrup
Unflavored gelatin
Measuring cup
Water
Stove/microwave
Cornstarch
Water
Two drinking glasses or coffee mugs
Sandwich baggie
Twist tie (from a bread sack)
Iodine

Chapter 28

Whole milk
Water
Shallow dish or pie pan
Food coloring
Liquid dish or hand soap
Cotton swabs
Paper towels
Measuring cups/spoons
Bowl of water

Chapter 29

Package of flavored gelatin (light-colored flavors work best)
Knox gelatin
Plastic cup/container to hold the gelatin
Various edible candies to represent organelles (i.e. fruit roll ups, cake sprinkles, hot tamales, chocolate covered raisins, gumball, etc.)
Plate
Knife
Spoon
Tea bags
Paper towels
Water
Container to water
Measuring tape

Chapter 30

Popsicle sticks/glue or gumdrops/toothpicks or clay/toothpicks or some kind of construction toys
Banana
Salt
Warm water
Blender
Liquid soap
Toothpicks
Strainer
Glass jar
Rubbing alcohol

Chapter 31

Small shrub, tree or houseplant
Aluminum foil or Cardboard
Paperclips
Scissors
Several oranges (other citrus fruit will do as well)
Container of water (large enough to hold the orange)
Knife (optional)

Chapter 32

Cardboard sheet (5"x36")
Fishing line
Duct tape
Scissors
Several different items chosen by the child
Organelle review sheet (see attached)
Paper and pencil

Chapter 33

Any brown soft drink (cola, root beer, etc...)
Water
Two Raw or hard-boiled eggs
Two Drinking glasses
Mouthwash with fluoride
Two Eggs
Two Drinking glasses
Vinegar
Water

Chapter 34

Case studies (see attached)

Paper/pencil

Saucepan and stove

Packet of unflavored gelatin

Water

Sugar

Beef bouillon

Four foil muffin cups

Muffin pan

Measuring spoons

Four sealable sandwich baggies

Antibacterial soaps, lotions, etc.

Raw meat

Cotton swab

Chapter 35

Paper/pencil

Chapter 36

One unfiltered cigarette

Empty soda bottle

Modeling clay

Pencil

One Cotton ball

Gallon milk jug with the cap

Large bucket of water

Measuring cups

Tubing (section of hose will work)