

MATERIALS AND EQUIPMENT

for “To do Yourself” Activities

At the start of each “To Do Yourself” activity, a list of materials is provided. Many of these materials may be obtained at any time up to the day of the activity. Other materials, such as frog’s eggs, animal parts, plant parts, and food samples, must be as fresh as possible on the day of use. A few materials should be prepared a couple of days before they are to be used.

This materials list is divided into three categories: Supplies and Apparatus; Readily Available Materials; and Fresh or Living Materials.

SUPPLIES AND APPARATUS

This list includes equipment and materials that should be on hand early in the school year. Many of the items in this list may already be a part of your science department’s stock. All other items can be ordered from a science supply company.

Biuret solution	microscope	test tube corks
bromothymol blue solution	pins, large (for dissection)	test tubes and holder
burner	slides (prepared)	test tubes - heat proof
dissecting needle or probe	-human blood	test tube rack
iodine, Lugol’s solution	-mammal artery & vein (c.s.)	tubing, rubber
	sugar-test tablets	

READILY AVAILABLE MATERIALS

This is a list of “non-science” items that are readily available in the school or at home, or are easily obtained at a local supermarket or hardware store.

alcohol	jars, large, wide-mouth	medicine droppers
aluminum foil	jars, small, wide-mouth	nail polish remover (optional: for teacher demonstration)
apple-coring tool	knife	napkins, paper
bags, plastic (small)	knife (plastic)	petroleum jelly
bags, plastic, (large)	plaster of Paris	pipe cleaners
baking soda	plates, paper	tank, glass
beans, dried (red and white)	pot holder	tank, for fish or aquarium
board, wood	powder, (baby)	tape, cellophane
bowl, small	ruler	tape, package
bottle, dropper	salt, table	thermometer, clinical
cardboard	sand	timer
carton, juice	saucer	thermometers, household
cereal	saucepan	toothpicks
clay	scissors	towels, paper
disinfectant, household	shell	tobacco, cigarette
drawing paper	soil	tray
glass-marking pencil	spoon, metal (old)	tweezers or forceps
fish food	spoon, plastic	wrap, plastic
flashlight	stapler	yeast, dry
hammer and nail	straw, plastic	
hand lens	sugar	
hot plate, electric	measuring cup	

FRESH OR LIVING MATERIALS

This list includes material that should be obtained as close as possible to the day on which they are to be used. If it is necessary to retain any of these materials for any length of time, it will be necessary to refrigerate them.

apple	tea, brewed (strong)	seeds, for sprouting
bananas, green	flowers	snails
bones, chicken and beef	food samples	spinach
brain, seep	fruit juices	starch solution
bread, white, (with preservatives)	goldfish	mealworms
bread, white, (without preservatives)	grapefruit	onion (or lettuce)
caterpillar	grass, dried	orange
chicken leg	grass, fresh	<i>Planaria</i> (living)
dechlorinating solution	guppies	plant parts (leaves, stems, roots, fruits, flowers)
earthworms	hair strands (from parent and offspring)	plants, aquatic
eggs, brine shrimp	heart, pig	tangerine
eggs, chicken	lard	tangelo
eggs, frogs	potato	tap water
fish, for dissection	seeds, dry and fresh (of various fruits)	terrarium organisms