

# Layers of Learning Biology Supply List

This is a comprehensive list of all the supplies needed to do every exploration in Layers of Learning biology. Since this is a pick-and-choose curriculum you will not need all of these supplies. Each exploration has its own supply list.

## Books

- ☐ Library
- ☐ Science encyclopedia (we recommend *DK Science Encyclopedia*)
- ☐ Plant and animal identification guides for your region

## School Supplies

- ☐ Colored Pencils
- ☐ Crayons
- ☐ Colored markers
- ☐ Pencil or pen
- ☐ Scissors
- ☐ Glue stick
- ☐ School glue
- ☐ Ruler
- ☐ Spiral or composition notebook
- ☐ Paper, plain white and colored
- ☐ Paper, card stock white and colored
- ☐ Permanent markers
- ☐ Poster board
- ☐ Masking tape
- ☐ Cellophane tape
- ☐ Metal brads
- ☐ Hole punch
- ☐ World map or globe
- ☐ Index cards
- ☐ Clip board
- ☐ Dry erase markers
- ☐ Stapler

## Art Supplies

- ☐ Poster paints
- ☐ Acrylic paints
- ☐ Watercolor paints
- ☐ Paint brushes
- ☐ Chenille stems (pipe cleaners)
- ☐ Googly Eyes
- ☐ Pompoms

- ☐ Yarn
- ☐ Embroidery floss
- ☐ Colored tissue paper
- ☐ Artist fixative spray
- ☐ Model magic
- ☐ Air dry clay
- ☐ Play dough
- ☐ Clear contact paper
- ☐ Crepe paper streamers
- ☐ Construction paper
- ☐ Craft sticks, regular size
- ☐ Hot glue gun with glue sticks
- ☐ Fabric
- ☐ Felt fabric
- ☐ No sew fabric glue or sewing machine
- ☐ Craft foam
- ☐ Butcher paper
- ☐ Nail polish or model paint
- ☐ Ink pad

## Grocery Supplies

- ☐ Gummy bears
- ☐ Colored mini marshmallows
- ☐ White mini marshmallows
- ☐ Licorice
- ☐ Red hots candies
- ☐ Sprinkles
- ☐ Salt
- ☐ Water
- ☐ Raisins
- ☐ Grapes
- ☐ Fruit leather
- ☐ Nuts
- ☐ Corn starch
- ☐ Dry split peas
- ☐ Meat tenderizer
- ☐ Cookie dough
- ☐ Frosting or icing
- ☐ Candies
- ☐ Bread

- ☐ Food coloring
- ☐ Buttermilk
- ☐ Sugar
- ☐ Frozen whole octopus
- ☐ Banana
- ☐ Syrup
- ☐ Peanut butter
- ☐ Rice
- ☐ Dry beans
- ☐ Eggs
- ☐ Chicken thigh bone
- ☐ Beef marrow bone
- ☐ White vinegar
- ☐ Corn syrup
- ☐ Baker's yeast
- ☐ Orange juice or lemon juice
- ☐ Soda crackers
- ☐ Soda pop or fruit juice
- ☐ Melons (cantaloupe, honeydew, small watermelon)
- ☐ Potatoes

### **Science Supplies**

- ☐ 250 ml beaker
- ☐ 150 ml beakers (3)
- ☐ Graduated cylinder
- ☐ Electronic balance
- ☐ Thermometer
- ☐ Meter stick
- ☐ Light microscope
- ☐ Microscope slides & covers
- ☐ Eye dropper
- ☐ Prepared "biology" slide set
- ☐ Petri dishes
- ☐ Nutrient agar
- ☐ Nutrient broth
- ☐ Disposable gloves
- ☐ Goggles
- ☐ Grease pencil
- ☐ Blood typing kit
- ☐ Hand lenses or magnifying glasses
- ☐ Binoculars
- ☐ Scalpel
- ☐ Cutting mat
- ☐ Butterfly net
- ☐ Butterfly hatching kit
- ☐ Quail hatching kit

- ☐ Earthworm dissection kit
- ☐ Sea star dissection kit
- ☐ Grasshopper dissection kit
- ☐ Owl pellet dissection kit
- ☐ Fetal pig dissection kit
- ☐ Sheep heart dissection kit
- ☐ Sheep brain dissection kit
- ☐ Cow eye dissection kit

### **Chemicals**

- ☐ Iodine
- ☐ Isopropyl alcohol
- ☐ Distilled water
- ☐ Methylene blue

### **Household Supplies**

- ☐ Internet connection
- ☐ Timer
- ☐ Computer
- ☐ Printer
- ☐ Camera
- ☐ Camera trap
- ☐ Compass or compass app
- ☐ Calculator
- ☐ Small and medium bowls
- ☐ Glasses or vases
- ☐ Plates, small and dinner
- ☐ Shallow dish or pie pan
- ☐ Butter knife
- ☐ Potato masher or fork
- ☐ Cooking pot
- ☐ Plastic zipper bags, sandwich and gallon size
- ☐ Paper towels
- ☐ Plastic wrap
- ☐ Blender
- ☐ Dish washing liquid
- ☐ Strainer
- ☐ Cotton swabs
- ☐ Needle
- ☐ Candle
- ☐ Piping bag (for frosting)
- ☐ Oven
- ☐ Refrigerator
- ☐ Stove top
- ☐ Sink
- ☐ Dice

- ☐ Envelopes
- ☐ Toothpicks
- ☐ Paper and plastic disposable cups
- ☐ Paper plates
- ☐ Cotton balls
- ☐ String
- ☐ Plywood or scrap wood
- ☐ Sandpaper
- ☐ Rubber bands
- ☐ Marbles
- ☐ Spray bottle
- ☐ Bed sheet
- ☐ Paper towels
- ☐ Nail & hammer
- ☐ Nylon stocking
- ☐ Lamps
- ☐ Lamp with a bendy neck
- ☐ Colored light bulbs
- ☐ Extension cords
- ☐ Window screen material
- ☐ Small trowel or shovel
- ☐ Flashlight
- ☐ Block tower game
- ☐ Golf ball
- ☐ Golf club
- ☐ Rope
- ☐ Coins
- ☐ Freezer paper
- ☐ Coffee filters
- ☐ Large basket (hamper)
- ☐ Socks
- ☐ Measuring tape
- ☐ Small ball
- ☐ Plastic bin (wash basin)
- ☐ Waders or water shoes
- ☐ Wood glue
- ☐ Long narrow boards
- ☐ Saw
- ☐ Twine
- ☐ Push pins (flat head)
- ☐ Dishwasher or laundry detergent
- ☐ Trash
- ☐ Plastic Easter egg
- ☐ Egg carton
- ☐ Kitchen sponge
- ☐ Balloons
- ☐ Mirror

- ☐ White swim cap
- ☐ Hand soap
- ☐ Ping pong balls
- ☐ Helmet
- ☐ Grooming supplies
- ☐ Foot bath or soaking tub
- ☐ Face cleansing products

### **Reused Supplies**

- ☐ Newspaper
- ☐ Jars (saved from food packaging or canning)
- ☐ Small and medium cardboard box (saved from food packaging)
- ☐ Toilet paper tubes
- ☐ Corrugated cardboard
- ☐ Plastic jug
- ☐ 2 liter soda pop bottle

### **Garden Center Supplies**

- ☐ Potting soil
- ☐ Peat moss
- ☐ Plant pots, plastic and clay
- ☐ Small plants
- ☐ Spider plant (*Chlorophytum comosum*)
- ☐ White carnation flowers
- ☐ Sphagnum moss
- ☐ Flower with a showy bloom
- ☐ Bean seeds
- ☐ Corn seeds
- ☐ Bird seed
- ☐ Bone meal fertilizer
- ☐ All purpose fertilizer

### **Pet Shop Supplies**

- ☐ Fish tank
- ☐ Fish for an aquarium
- ☐ Fish food
- ☐ Aquarium rocks
- ☐ Crickets
- ☐ Cricket food

### **Nature Supplies**

- ☐ Pond water
- ☐ Rocks
- ☐ A set of 10 specimens
- ☐ Plants growing outside

- ☐ Small pebbles
- ☐ Ferns
- ☐ Cross section of a tree (a log)
- ☐ Pine cones
- ☐ Earthworms
- ☐ Soil from outside
- ☐ Pill bugs (roly-polies, potato bugs, wood lice)
- ☐ Ant colony
- ☐ Sea shells
- ☐ Feather

### **Places to Visit**

- ☐ Botanical Garden
- ☐ Outdoor environments like back yard or park
- ☐ Outdoor environments like a forest or wild area
- ☐ Beekeeper
- ☐ Pond or lake
- ☐ Zoo, aquarium, or wildlife center
- ☐ Vegetable or flower garden where you have permission to dig
- ☐ Grocery store
- ☐ Doctor, dentist, or nutritionist's office