

Supply List for *Behold and See 3*

PART ONE: PHYSICAL SCIENCE

Chapter Two: Matter and Spirit

- 2 identical plastic jars, pebbles or rocks, and styrofoam peanuts
- several objects from around the house. Get 3 items made of each of the following: cloth, wood, paper, cardboard, metal, plastic. These are all solids.
- a pitcher of water, several containers (bottles, cups/glasses, bowls), a dishpan or large shallow baking pan, plus the plastic objects from previous experiment
- a clear wide-mouthed jar or glass; a white tissue; a dishpan; water; food coloring (optional), spoon, paper towels
- 2 plastic zipper bags, water, drinking straw
- 2 balloons, string, 2–3' narrow dowel (3/16"), a long rubber band, a pin or tack, a helper, and a balloon pump (optional)
- a pinwheel
- water, an ice-cube tray, a shallow pan, a small saucepan, freezer, stove
- ice cubes; a glass jar; a place mat; a plate

Chapter Three: Force and Energy

- a pull-along truck, or any toy truck and string
- a ball you can roll in the house, space where you can roll it, a helper, masking tape
- a wire (an old wire hanger will do), a stalk of celery, a piece of string
- 2 heavy and 2 light objects from your collection, a table, and a ruler
- choose 2 large and 2 small objects from your collection

- magnet, several items from around the house (such as coins, marbles, pins, sewing needles, silverware, paper, keys, buttons, “tin” cans, erasers, etc.)
- a magnet, a paperclip (or other small magnetic object), paper, plastic and glass plates, a book, a sheet of aluminum foil, a steel bowl or plate
- 2 bar magnets with poles marked, table
- a bar magnet, steel paperclip, index card, scissors, small bowl, water
- 6–10 different materials such as paper, plastic (bags), upholstery fabric, carpet scraps, metal (foil), fleece (sweatshirt), sandpaper
- a flashlight, a large cardboard box, a dark room
- a wall mirror, a hand mirror, a flashlight
- a steel pipe, a spoon

Chapter Four: The Sun, the Moon, & the Earth

- a dishpan, play dough or clay, a jug of water, newspapers
- a sunny day, a magnifying glass, paper
- a white plastic or styrofoam ball, a flashlight, a dark room
- your thumb, someone to help you
- a globe, a flashlight, a helper
- about 2 arm lengths of string, a small object to tie to the string (such as a large wooden bead or an empty thread spool)
- resource for finding planet locations. Options include “This Week’s Sky at a Glance” at <https://skyandtelescope.org>, a free smartphone app for stargazing, or a current copy of *Sky & Telescope* magazine (check the library).

Continued

- large sheet of chart paper or small notebook, two sheets of plain paper, markers, colored pencils or crayons, glue
- a sheet of plain white paper, a bright light, and a dim light (like a nightlight)
- a blanket or seat to lie or sit on outside, binoculars or telescope
- a room with some things on the walls and some space to move around in.
- a shoebox, scissors, a styrofoam meat or deli tray, tape, knitting needle or toothpick, a flashlight, star charts
- a balloon
- dry lentils, water, a clean shallow bowl or pan, a colander, a tablespoon, a clean spray bottle
- 12 dry beans (choose ones that sprouted before), paper towels, water, plastic cups, plastic wrap, marker
- 5 small plants, 5 styrofoam cups, potting soil, water, marker, pencil, a spray bottle, a ruler, and a large plastic cup that's big enough to put a plant cup inside. (You can either buy a plant pack or grow your plants from seeds. If you use seeds, you will also need: a packet of seeds, a bag of potting soil for seed starting, a gallon-sized plastic zipper bag, plastic wrap, a plastic tray or plate.) Fast-growing plants such as marigold, sunflower, or beans will be best.

PART TWO: LIFE SCIENCE

Chapter Five: Animals

- a zoo or farm to visit, Mom
- an encyclopedia

Chapter Six: Plants

- a place with wild flowers, a plastic bag, science notebook, a Field Guide (such as Audubon's or Peterson's)
- wild flowers, white paper, phone books, tape, a pen or pencil
- different types of plants (a nursery would be a perfect place for this activity)
- white paper, a dark-colored crayon, a leaf, a magazine
- 2 tablespoons of mixed dry beans, such as beans for 12-bean soup (do not use garbanzo "beans"—also called chickpeas—because they are really peas and grow differently), water, a bowl, a styrofoam or plastic cup, a plain paper towel
- large dry beans (such as Lima or kidney) and water

- dry beans (choose ones that sprouted before), water, clean clear plastic 2-liter pop bottle, a bag of potting soil for seed starting, gallon-sized plastic zipper bag, plastic wrap, ruler, dark construction paper, scissors, tape
- a table knife, clean plate or cutting board, large index card, tape, pen, and one each of different kinds of fruit (such as apple, orange, grape, banana, pear, strawberry, tomato, acorn)
- about 1" from tops of carrots, turnips, or other root vegetables saved from the kitchen, a plate, water, scissors
- fresh clean fall leaves, wax paper, iron, plain paper, scissors, pen

Chapter Seven: Interdependence

- a park or other location with a pond that you can visit
- a forest (such as a State or National Park) to visit
- an encyclopedia
- a clean, empty clear 2-liter soda pop bottle with its cap, sharp scissors or utility knife, small gravel, activated charcoal, potting soil, 3 or 4 small plants, water, measuring cups, drinking straw, earthworms and/or small snail

PART THREE: HUMAN BODY

Chapter Eight: Many Parts, One Body

- a large sheet of paper, markers, a helper
- colored pencils, markers or crayons
- 1 or more bones (chicken, beef, or ham). If possible, use a cooked bone.
- your body chart, an encyclopedia, marker
- your body chart; green marker, pencil, or crayon
- 2 cardboard tubes (such as from empty paper towel rolls), scissors, single-hole punch, 2 brass fasteners
- twine or heavy string, 4 more brass fasteners, scissors, marker
- a step or a low stool about the height of a step
- a watch that shows seconds or a stopwatch, a helper to time you
- a gallon-sized zipper storage bag, a drinking straw, a ruler, a marker

Chapter Nine: Senses

- a ruler
- 6–8 different bottles or other tall, narrow objects that will stand upright, a table, a helper, eye-patch (optional)
- a long tube such as the core from a paper towel roll
- a musical instrument, a helper to play notes on it
- a blindfold (or you can just keep your eyes closed), a helper with a whistle, party horn, or noisemaker

- various foods to taste, a clean empty ice-cube tray, a spoon, a glass of water. Try to get a variety of items, such as bread, crackers, lunchmeat, fruit, juices, vegetables, pickles, candy, soy sauce, etc.
- sugar, salt, lemon juice, 3 small cups such as medicine cups, and a glass of water and a sink
- several clean opaque plastic bottles with lids, various items to smell, paper towels, small sticky labels and a pen, water, a medicine dropper, at least one helper willing to sniff test items. Ideas for items to smell: small piece of onion, perfume, water, vinegar, juice, pieces of various foods—fruit or veggies, lunchmeat, bread. You will need as many bottles as you have items to smell-test.
- 3–4 different fruit juices (such as apple, grape, orange, or grapefruit), a cup for each juice, a cup of water, a blindfold, a helper
- the same items as for the last experiment, plus a piece of onion
- an adult’s shoe box with a lid, scissors, various small, sturdy items from around the house

Chapter Ten: Nutrition

- a milk container
- a small jar, dry pinto beans (or other dark colored dry beans), dry small white beans (or other light colored dry beans), a bowl
- an orange, a banana, baby carrots or carrot sticks, table knife, plate
- several food packages, such as a milk container, bread bag, box of cereal, etc.