

Consolidated list of lab supplies for *Science in the Scientific Revolution*

The supplies listed in red are used for challenge lessons. If you are not doing those lessons, you don't have to worry about those supplies.

- A ¼-cup measuring cup
- A ½-cup measuring cup
- A 1-cup measuring cup
- A measuring glass that can measure at least 2 cups
- A ¼-teaspoon measuring spoon
- A measuring teaspoon
- A measuring tablespoon
- At least 10 meters (30 feet) of string
- A bag of small candies like Reese's Pieces, M&Ms, or Skittles
- A ball that is about the size of a baseball or tennis ball
- A large ball that bounces well. The ideal ball is a basketball, but it can be a soccer ball or any other ball that is pretty large and has a nice bounce to it.
- A golf ball
- A baseball or some other hand-sized ball that is white or at least brightly colored
- A balloon (Any shape will do, but it should be larger than your hand when it is inflated.)
- A bathtub
- A Bible
- A blank sheet of white paper
- A camera (optional and only for those who do the "older" and "oldest" student assignments)
- A coffee mug (The experiment is more dramatic if its breakable!)
- A coin that has an easy-to-recognize "heads" side and an easy-to-recognize "tails" side
- A counter that is above a floor you can make a mess on
- A cutting board
- A dried bean
- A driveway or other long, flat surface over which the wagon can roll
- A few heavy books
- A flashlight that has a face which is at least 1.5 inches across
- A flashlight that uses two batteries (It is best to use a flashlight with a single bulb. Flashlights with several LED lights will not give good results.)
- A flat board that is at least a meter (39 inches) long
- A flat piece of cardboard that is at least 20 centimeters by 20 centimeters (8 inches by 8 inches)
- Another piece of cardboard (no bigger than 18 cm [7 in] by 10 cm [4 in])
- A straight piece of cardboard that is as wide as your bathtub and at least 10 centimeters (4 inches) tall
- A thick piece of cardboard or a table to which your parents will allow you to tape three pieces of paper.
- A square or rectangle of cardboard that is larger than a paper plate
- A thin piece of cardboard (like you find on the back of a pad of paper)
- A flower that looks something like a lily. It should have obvious stalks in the center, and one should be noticeably different from the rest (see picture on page 203).

- A flower with petals that are light in color (White would be ideal, but any light color will do. A flower bought from a store will work, or you can pick one from outside.)
- Two rather different flowers, such as a daisy and geranium (If you are doing this during a time of year when flowers are not in bloom, you can usually get flowers fairly cheaply in a supermarket. The flowers can be of any variety, as long as they are very different from one another in terms of the number of petals, whether or not there are stalks at the center of the flower, etc. If you simply don't have the time or money, pictures will work, as long as they show the flower in some detail.)
- A fresh chicken drumstick (uncooked)
- A fresh chicken wing (uncooked)
- A fresh tomato
- A funnel
- A gallon-sized Ziploc bag
- A hammer
- A handful of dirt
- A handheld hair dryer (It is best if the hair dryer has at least two settings, like "low" and "high.")
- A hex head nut (This is the kind of nut that fits on a bolt and is tightened with a wrench. The nut has six flat sides on the outside.)
- A kitchen sponge it is okay to ruin
- A knife
- A serrated knife (like a steak knife)
- A lamp that can be moved
- A large bowl
- A large drinking glass
- A large plate that can hold a thin layer of milk
- A large pot for boiling water
- A saucepan
- A stove
- A sink
- A lighter
- A magnifying glass
- Six marbles, one large (like a "shooter") and one small
- A marker
- A pen
- A pencil
- A medicine dropper
- A metal hanger
- A metal paper clip
- A metal pie pan
- A metal pot with a handle
- A metal spoon
- Two rulers (You can use just a single ruler if it has a thin groove in the center that will act as a track down which marbles can be rolled.)
- A mirror

- A mixing spoon
- A mug used for hot beverages or a very well-insulated cup and a glove.
- A nail
- A pair of pliers
- A paper napkin
- A paper plate
- A peanut with the shell intact
- A pencil “lead” (The easiest thing to do is get a piece of “lead” from a mechanical pencil. However, you can whittle down a pencil to get some of the “lead.” The piece only needs to be about 2 centimeters – just under an inch – long.)
- A penny
- A Ping-Pong ball
- A pitcher or large glass that has a pouring spout on it
- A plastic bottle (1-liter bottles are best, but a ½-liter bottle will do. It should be one you can ruin.)
- Five small plastic bottles with lids (like the ones water comes in)
- **Three plastic, ½-liter bottle with a lid, like the kind water comes in**
- A plastic container with a lid (like a Tupperware container) that is small enough to fit into the pot but large enough to hold half a tomato
- A plastic garbage bag that is tall enough so that you can stand inside it and the top will reach up to your waist (the thicker the plastic, the better)
- Two pushpins
- A Q-tip
- A rubber band that can fit around a baseball and still be stretched
- A sewing needle
- **A Slinky (It can be small or large, plastic or metal.)**
- **A small balloon**
- A small bowl
- Three small glasses (like juice glasses)
- **A small jar, like a baby food jar.**
- A small lump of charcoal
- A spoon
- A stepladder
- A stopwatch
- A strainer for the noodles
- A string of colored Christmas tree lights
- Four Styrofoam cups (Two of them should be large.)
- **A Styrofoam plate that has enough of a raised edge that it is a bit like a very shallow bowl**
- A sunflower seed in its shell
- A tapered candle that is 15 centimeters (6 inches) long or can be cut down to that length.
- A tennis ball or baseball
- **A tennis ball you can ruin**
- A toy car that doesn’t have a motor
- A turkey baster
- A vacuum cleaner with a hose and a small attachment that has bristles around the edge

- A wagon or anything else with wheels that you can stack things on and push (Even a chair with wheels will work.)
- A wall mirror
- A window
- A winter glove
- Three Ziploc bags
- Active dry yeast (Grocery stores sell it for making bread.)
- Aluminum foil
- An empty CD case
- An index card
- An old compact disc (CD) that can be completely ruined
- An old sock that you aren't going to use anymore (the longer, the better)
- Antacid tablets (Any brand will do. Unflavored tablets would be ideal, but they are hard to find.)
- Apple cider vinegar (You can use clear vinegar if you like, but the experiment will be slightly more disgusting as a result.)
- At least 30 pennies (At least two of them need to be really shiny.)
- Baking soda
- Black construction paper
- Cellophane tape
- Clear plastic wrap
- Clear tape (like cellophane tape)
- Crayons, colored pencils, or markers
- Cream of tartar
- Cutting board
- Dishwashing soap
- Eight uncooked eggs
- Epsom salt (available at any drugstore)
- Eight paper plates
- Flour
- Four colors of food coloring (They need to be liquid, not gels.)
- Glue (A glue stick works best, but any glue will do.)
- Hammer
- Hydrogen peroxide (Drugstores carry it.)
- Ice
- Karo corn syrup (Other brands would probably work.)
- Kitchen tongs
- Matches or something else you can use to light a candle
- Metal tweezers
- Milk (Whole milk is best, but any cow milk other than skim milk will work.)
- Paper towels
- Play-Doh or modeling clay
- Root Kill (It is found in the plumbing section of a hardware store. The ingredients list should have "copper sulfate" or "copper sulfate pentahydrate" as the main ingredient. If you can look inside the package, it should be full of blue crystals.)

- Salt
- Scissors
- Several books that can be easily stacked on top of one another
- Six noodles
- Some ink (Stamp pad of ink would be ideal, but you can use fingerprint or watercolor paint and a brush as well.)
- Some newspapers or old towels
- Some nylon stockings that you can cut up
- Several blank sheets of paper
- Some paperback books
- Steel wool
- Tape
- The phone numbers or E-MAIL addresses of your pastor and at least three other adults in your church. It is best to contact people who are knowledgeable about the Bible and matters that relate to the creation account as given in the book of Genesis.
- Thread
- Two cardboard tubes from the center of a roll of toilet paper
- Five cardboard tubes from rolls of paper towels
- Three slices of bread
- Five straws (Two of them need to be able to bend near one end.)
- Two balloons
- Two bowls that are big enough to cover dinner plates when turned upside down
- A candle that can stand on its own or be put in a holder.
- Another candle
- Two chairs of the same height (or other heavy items to which string can be tied)
- Two coffee filters
- Two dinner plates
- Two large books
- Two metersticks, yardsticks, or thin pieces of wood
- Two paperback books that are roughly the same size and thickness
- Two plastic bags
- Two round balloons of the same size (Somewhere between 5-8 inch diameters work best)
- Two small glasses (like juice glasses)
- Two small plates
- Two small rocks
- Two straight pins
- Two tall glasses that you can see through and are the same height
- Two washers or nuts
- Vanilla
- Vegetable oil
- Vinegar (any kind)
- Water
- Weak reading glasses (A power of 1.50 is ideal.)
- White vinegar
- Wooden Matches