

### **Preliminary Lab Supply List for Friendly Biology (subject to change)**

- Large flower pot or tub with holes in bottom, tray or saucer for below. Larger, the better.
- Potting soil (not soil from yard or garden) 2 cubic feet is plenty
- 1-2 white potatoes (seed potatoes are ideal)
- Magnifying glass or lens
- Access to digital camera or phone with camera.
- Metal teaspoon or tablespoon (one that is old is ideal, it may become unsuitable for use after lab)
- Safety candles or short tapers with candle holder or ability to affix candle in upright position
- Matches or lighter
- Marshmallows - 5-6 regular sized (one bag is plenty)
- Lids from plastic containers - yogurt, sour cream, etc. 5-6 is ideal.
- Toothpicks or coffee stirrers
- Eye dropper or small syringe - disposable is fine
- Tincture of iodine - small bottle, can be purchased at drug store or pharmacy in first-aid section. This is poisonous. Keep out of reach of small children!
- Old newspapers or tablecloth to protect table surfaces (used many times)
- Small quantity (1-2 Tablespoons) of these powders: white flour, whole wheat flour, granulated white sugar, powdered sugar, cornstarch, baking soda, baking powder, table salt, corn meal.
- Small quantity of popped popcorn (plain with no added butter or salt.)
- Small quantity of breakfast cereal or uncooked oatmeal, instant is okay.
- One-quart glass jar with lid
- Cooking oil - approximately 1 cup, any kind is okay.
- Food coloring - any color will work, a few drops is enough.
- One-pint jar with lid - must be very clean.
- Heavy whipping cream - half-pint. Table cream is okay, but heavy whipping works best.
- Clean Tablespoon or wooden spoon.
- Soda crackers (one stick is enough)
- Jello dessert packages - 3 boxes, any flavor but get all three the same flavor.
- Canned pineapple - chunked, one can
- Fresh pineapple - peeled and cored - may get from salad bar at restaurant or grocery deli, but must be fresh, not canned.
- Powdered meat tenderizer - small container
- Grape juice OR red cabbage - either will work, grape juice may be prepared from frozen; red cabbage juice is prepared by boiling small quantity of fresh red cabbage. Instructions in text.
- White vinegar - at least 1 gallon (will be used in many labs)

- Citric acid - (Fruit Fresh) - small container
- Lemon juice - may be fresh or bottled, small quantity
- Milk - cow's or other source is fine - 1 cup is plenty
- Ammonia - found in cleaning section of grocery store. Keep out of reach of small children!
- Clean pint jar with lid - may reuse one used in earlier lab. Must be very clean.
- Plain yogurt with active cultures - one-size serving is plenty
- Wooden or plastic spoon
- Low heat source like incubator, heating pad, hot water bottle
- Fruit (to be mixed into yogurt made in lab, your choice)
- Whole milk - one gallon
- Stock pot large enough to hold one gallon of milk
- Metal spoon or ladle
- Colander
- Chicken eggs - at least four fresh eggs, not cooked
- Quart-sized jars - at least 5
- Styrofoam cups - 8-ounce size or larger, 4 cups
- Wax pencil or marker which can write on glass
- Graduated cylinder or large syringe (30 or 60 cc) which can measure in milliliters or ccs.
- Granulated sugar - at least five pounds.
- Corn syrup - white, one bottle.
- Fresh celery - one stalk is plenty
- Fresh carrots - one carrot is plenty
- Fresh potato - one potato is plenty
- Model building supplies (notes in text explain this well)
- Sticky-notes or post-a-notes - 1 package is plenty
- Game die - 1
- Toilet paper - 8 rolls, plain with no colors or fragrances, Scott brand is ideal.
- Access to refrigerator
- Mushroom TP growing kit (information found in text; may need to order early in order to have on hand when lesson arrives)
- Fresh flowers—1-2 per child, lilies, tulips or hibiscus are ideal.
- Sharp knife or scalpel blade to cut into flowers.
- Additional labs may be added to the course. Check our website ([friendlybiology.com](http://friendlybiology.com)) for details.