Chemistry Supply List

A molecule modeling kit
Modeling clay – Google how to make homemade Playdough for a recipe
Periodic Table that can be written on
Pens or markers to use on your periodic table
Pencils or pens
Lab sheets

Materials Week 1

- Spoons for mixing
- Correct measuring cups for wet and dry ingredients
- Measuring spoons
- Gram scale
- Knife
- Small bowl
- 4 large eggs
- ½ cup cocoa powder
- 1 ¼ cup sugar
- 1 teaspoon salt
- 2 teaspoons baking powder
- 1 ¾ cup flour
- 12 ounces chocolate chips (or chopped chocolate)
- 1 teaspoon baking soda (only use ½ t in the cakey brownie recipe)
- Nonstick cooking spray
- 2 8-inch square pans
- Parchment paper or aluminum foil
- Oven, preheated to 350˚F.
- Microwave
- 2 microwave-safe bowls
Materials Week 2

- 6 eggs
- Scale
- 6-inch string or strand of yarn
- Ruler
- Electric Mixer
- Pinch salt
- 1 ½ cup sugar
- 1 teaspoon vanilla
- ½ teaspoon cream of tarter
- Oven
- Cookie Sheet
- Thermometer

Materials Week 3

- 2 pieces scotch tape 10 cm long
- Plastic grocery bag
- Scissors
- Inflated balloon
- Small pieces of paper, confetti-size

Materials Week 4

- Internet access
- Computer
- Tearing through Half-Life lab sheet

Materials Week 5

- Internet access
- Number between 1 and 118
- Colored markers
- Poster board
- Glue, and other craft supplies as needed

Materials Week 6

- 4 beakers, small clear glasses can be used instead
- 50 ml water
- 50 ml vinegar
- 50 ml water with 1 t of baking soda dissolved in it
- 50 ml water with 1 t salt dissolved in it
- 4 gummy bears
Materials Week 7

- Periodic table
- Markers that show up on your periodic table
- Counters: raisins, beans, marshmallows Playdough are all options, you need 3 colors to model protons, neutrons, and electrons

Materials Week 8

- Scale
- Water
- 1 piece of chalk
- Surface where you can write your name
- 1 T salt
- 1 T sugar
- 3 spoons
- 1 teaspoon measuring spoon
- Lab sheet, pencil

Materials Week 9

- Graduated cylinder (25 mL, 50 mL, or 100 mL) or beakers
- Cup or beaker of water
- Pennies – 10
- Tub
- Plastic Spoon
- Water
- Pebble to fits in the cylinder
- Lab sheet, pencil

Materials Week 10

- 25 ml oil
- Water
- Yellow food color
- Blue food color
- 2 droppers or pipettes
- Piece of wax paper
- 1 piece of paper towel
- 1 t salt
- 1 small cups or beakers
- Spoon
- Lab sheet, pencil
Materials Week 11
- Molecular modeling kit
- Lab sheet, pencil

Materials Week 12
- Wax, a candle is a good choice
- 1 T Stevia or fructose
- Crushed sodium bicarbonate (Alka seltzer)
- Thermometer
- Small saucepan or pot
- 3 Foil boats
- Hot plate or cooktop with a very low setting
- 1 cup water

Materials Week 13
- 1 clear jar
- Measuring cup
- Measuring spoons to measure ¾ tsp
- Small plastic sandwich bag
- 1 large bucket/tub - 14.5" length x 12.2" width x 9" depth is an absolute MINIMUM size – use a considerably larger one if possible
- 1 empty 20 oz. Gatorade bottle
- 2 cups of vinegar
- ¾ tsp baking soda
- Water

Materials Week 14
- Shallow baking pan (8x8x2 inch)
- Heavy duty aluminum foil
- Oil spray
- 2 1/8 cups sugar
- 1/2 cup light corn syrup
- 1/2 cup water
- 2-quart saucepan
- Candy thermometer
- Stove
- Spatula
Materials Week 15

- 10 raisins
- ¼ cup vinegar
- Ice cubes
- ¼ cup clear carbonated beverage
- 2 T mayonnaise
- 1 Penny
- ¼ cup light corn syrup
- 1 blown up balloon
- Light bulb that is turned on

Materials Week 16

- Pyrex measuring cup or a heat resistant beaker
- Water Balloons
- Boiling water
- Refrigerator
- Oven mitts
- Large syringe
- 2 flat bottomed candles
- Large shallow glass casserole dish
- Water
- Food coloring (any color)
- Lighter
Materials Week 17

- 1 T Baking soda
- 1 T Baking powder
- 1 T Cream of tartar
- 1 T Cornstarch
- 1 L Water
- 5 mL Vinegar
- 5 mL Tincture of iodine/Betadine
- One head of purple cabbage
- Knife for chopping cabbage
- Two cups of distilled water, if you do not use distilled water your water may affect the acidity of basicity (ph) of the indicator
- Small strainer
- One glass quart jar with a lid (or another container that holds 1 quart)
- Container that will hold four cups of cabbage plus four cups of water
- Cookie sheet with a lip around it
- Bowl
- Rubber gloves, optional, if you do not want your fingers dyed purple, wear these
- Gallon baggie
- 10 small plastic cups
- 4 droppers
- 8 Popsicle sticks
- Lab sheet, pencil

Materials Week 18

- 2 1-quart/1-liter baggies
- 2 1-gallon/4-liters large baggies
- 12 ice cubes or about 2 cups cubed ice
- 2 cups water
- 2 cups salt
- 1 cup heavy cream, or dairy substitute (make it something creamy)
- 1 cup milk, or dairy substitute (it can be the same thing as above)
- 4 T cup sugar
- 1 teaspoon vanilla
- Freezer
- 1 Ice cube tray (cupcake liners can be used if you do not have an ice cube tray)
- Hot mitts or kitchen towel to protect hands from cold (optional)
- Thermometer
- Spoon
- Lab sheet, pencil
- Permanent marker
- Another person
Materials Week 19

- 1 6-oz bottle of Elmer’s Glue
- 1 TBSP water to make the slime stretchier, optional
- ½ TBSP Baking Soda
- 1 ½ TBSP of contact lens solution (re-nu is a good choice). **The contact lens solution must contain boric acid and sodium borate.**
- Mixing bowl

Materials Week 20

- 1 cup indicator
- 6 T baking soda
- 1 cup vinegar
- 4-cup measuring cup
- Sink
- Towels
- 500 mL distilled (optional) water
- Measuring spoons
- Dropper

Materials Week 21

- 1 ½ cups flour
- 1/3 cup cocoa powder
- 1 t baking soda
- 1 cup sugar
- ½ t salt
- ½ cup vegetable oil
- 1 cup water
- 2 t vanilla extract
- 2 T vinegar

Materials Week 22

- Very hot water to cover silver items
- Baking pan, deep enough to submerge silver in
- Aluminum foil to completely line baking pan
- ¼ cup salt
- 1 ½ cups baking soda
- Tarnished silver
- Lab sheet, pencil
Materials Week 23

- 1 Unbaked pizza crust
- Pizza pan
- Oven
- 1 Cup pizza sauce
- 1 Small oven safe dish (for ½ cup of sauce)
- 1 Cup or more of your favorite cheese for pizza
- Oven mitts
- Thermometer
- Timer

Materials Week 24

- 50 mL 3% hydrogen peroxide
- Measuring spoons
- Metric measuring cup
- 4 teaspoons yeast
- Thermometer
- Timer, the one on your phone works
- 50 mL white vinegar
- 2 teaspoons baking soda
- Water
- 1 Clear glass
- Someone to help with the timing

Materials Week 25

- 1 flask
- Cooking Oil
- Food Coloring
- Water
- Alka-seltzer tablet
Materials Week 26

- 100 mL olive oil
- 14.0 g sodium hydroxide If you cannot find this email Blair with your mailing address & I will ship you what you need for the price of the postage
- 46 mL distilled water
- ½ piece of crayon
- Spoon
- 250 mL beaker of Pyrex measuring cup
- 100 mL beaker or Pyrex measuring cup
- Thermometer
- Plastic or Styrofoam cup
- Stove
- Gloves
- Fragrance, optional

Materials Week 27

- 6 Test Tubes or glasses
- Some Sort of Stand – you can make one out of a tissue box by poking holes of the right size through one side of it
- 2 Tablespoons Copper Sulfate (this is a type of root killer) AND 2 Tablespoons Sodium hydroxide (lye AKA drain cleaner) If you cannot find this email Blair with your mailing address & I will ship you what you need for the price of the postage.
- GLOVES – do not do this lab without protective rubber gloves on your hands
- 1-2 Tablespoons Apple juice
- 1-2 Tablespoons Milk
- 1-2 Tablespoons Vegetable or Olive Oil
- 1-2 Tablespoons Water
- 1-2 Tablespoons Sprite
- 1 Egg White
- Any other things you want to test
- Timer
- Spoon
Materials Week 28

- The six types of plastic you'll need to work with are listed here. Get as many as you can from around your house. If you cannot get them all, you will work with what you have.
  1. **Polyethylene terephthalate (PET)**. Plastic bottles-including carbonate beverage bottles, meat wrappers, and filling for pillows.
  2. **High-density polyethylene (HDPE)**. Plastic bottles, such as those containing milk, detergents, shampoo, bottled water, juices, and antifreeze. It's also used for plastic grocery bags and freezer bags.
  3. **Polyvinyl chloride (PVC)**. Some bottles-primarily those used to hold cleaning agents-are made from this type of plastic. So are electrical conduit and plumbing pipes.
  4. **Low-density polyethylene (LDPE)**. This type of plastic is used in filmy-type bags such as garbage and bread bags, squeeze bottles, garbage cans, and irrigation tubing.
  5. **Polypropylene (PP)**. Microwave containers, drinking straws, potato chip bags, and yogurt containers.
  6. **Polystyrene (PS)**. This kind of plastic is used to make deli and salad bar take-out containers, plastic cutlery, clear plastic cups, Styrofoam, and plastic sleeves for cookies or crackers.

- Isopropyl rubbing alcohol
- Light corn syrup
- Water
- Metric or standard measuring spoon
- Four small, plastic cups or bowls
- Candle and matches for flame test
- Kitchen tongs
- Pail of water
- Fine-tipped permanent marker
- Mask
- Outdoor area
- Internet access to watch this [https://www.youtube.com/watch?v=KpVpJsDjWj8](https://www.youtube.com/watch?v=KpVpJsDjWj8)