

The following is a comprehensive, lesson-by-lesson list of the materials that you will need for demonstrations and other activities in the Biology lessons.

The materials in the following box are needed for many activities.

*= optional material

Frequently Used Materials

● scissors

● colored pencils

Module 1:

1.2.2 Unplug: Testing pH

- 6 test tubes or small cups
- test tube rack (if using test tubes)
- marker
- six 10-mL graduated cylinders or jars
- lemon juice
- vinegar
- mouthwash
- window cleaner
- 2 unknown solutions gathered by your instructor (ex: water, juice, household cleaner)
- pH indicator paper

Module 2:

2.1.2 Unplug: Create a Cell

- Examples of materials include construction paper, buttons, pipe cleaners, glue, recyclable items, candy, cake, pasta, play dough, yarn, Styrofoam, etc.
- Digital or camera phone

2.2.1 Unplug: Observing Osmosis in Eggs

- safety goggles, lab apron, protective gloves
- balance or scale (Optional)
- 2 beakers or glass
- 2 beakers or glass jars, 600 mL
- corn syrup
- distilled water
- 2 eggs
- 2 paper towels
- tablespoon or tongs
- vinegar, 400 mL
- labels and pen

Module 3:

3.2.1 Unplug: Animating Mitosis

- 40+ index cards
- two 8-inch pieces of string
- colored pencils
- scissors
- hole punch

Module 4:

4.1.4 Unplug: Crossing-Over Model

- paper strips
- colored pencils
- scissors

Module 5:

5.1.3 Unplug: Replication of DNA

- 2 disposable plastic zipping bags
- scissors

5.3.4 Unplug: GMO Debate

- notebook