

LAB Materials List

Physical and Earth Sciences 1 (SCIH 021 059)

The lab experiments in this course are designed so that they may be successfully completed using the items listed. If you do not have access to the exact items on this list, you may substitute comparable items in the experiments. Suggested household and other common materials necessary to complete the labs in this course are listed here. Items marked with an asterisk* are available in the SCIH021 lab kit. If you have access to them, you do not need to buy the lab kit.

1 pencil

*100-mL graduated cylinder

10-12 sheets of graph paper

*stopwatch

ice cubes

a ruler that is marked in both inches and centimeters (or the folding meterstick)

a rock

an eraser

a small block of wood

a square of aluminum foil (approx. 3" x 3")

1 metal or plastic tray (like a cookie sheet or cake pan)

4 sheets of paper (equal sizes)

1 meterstick (or yardstick also marked in centimeters)

*a folding meterstick is available in the lab kit

scissors

masking tape or other colored tape you can write on

1 500-mL beaker (or heat-proof container that holds approx. 500 mL)

1/4 tsp. of ground black pepper (or other non-soluble, fine-grained spice)

1 candle

1 roll transparent tape

1 sewing needle

*1 small bar magnet

4 pieces of cloth of equal size (of the same type)

1 plastic foam cup

*1 coiled-spring toy (like a “slinky”)
1 empty plastic water or soda bottle
1 meter length of rope or hose (If you do not have a rope, hose, or a long spring, you can substitute heavy string. You will need a length of at least 1 meter to adequately perform this experiment.)
1 penny or other small denomination of coin
1 small, opaque cup (like a coffee mug)
2 plane mirrors (flat mirrors)
1 protractor (or other means of measuring 90° and 120°)
1 paper clip
pancake mix (or the ingredients to make pancake batter)
small funnel
small, flat pan (frying pan)
small saucepan with a lid
table salt (about 35 g or 8 teaspoons)
2 small clear glass containers (like juice glasses or shot glasses)
food coloring (a few drops)

* The following items (marked with asterisk in the above list) are available in the lab kit which can be purchased from Follett using the link provided in the UNHS webstore.

- *100-mL graduated cylinder
- *stopwatch
- *a folding meterstick
- *1 small bar magnet
- *1 coiled-spring toy (like a “slinky”)