

Lab: Physical/Chemical Changes

In this lab, you will observe various changes in matter, massing the chemicals before and after the changes. Since precision and accuracy are important in this lab, be very careful in handling the apparatus and chemicals and be sure to follow proper massing techniques. Also, use the same balance throughout the lab.

Part 1: materials: glass vial with cap, ice cubes

Fill the glass vial $\frac{3}{4}$ full of ice and place the cap on the vial. Mass the full container with the cap on. Let the ice melt while you go on to other parts of the lab. Do not handle the vial during this time period. Then, lifting the vial by the cap, remass the full container with the cap on. All of the ice may not have melted. That's OK! Record your results and observations, calculating any change in mass.

Part 2: materials: birthday candle, modeling clay, matches, dish

Mass together the birthday candle, clay, and dish. Stand the candle in the dish using the clay as a holder. Light the candle and let it burn as you go on to the other parts of the lab. After completing the other parts, blow out the candle, and remass all items. Record your results and observations, calculating any change in mass.

Part 3: materials: beaker with solution, dropper filled with solution

Mass together the beaker with solution along with the dropper filled with solution. Empty the contents of the dropper into the beaker. Remass together the beaker, its contents, and the empty dropper. Record your results and observations, calculating any change in mass.

Part 4: materials: beaker with solid, dropper with solution

Mass together the beaker with solid and the dropper with solution. Slowly, and down the sides of the beaker, deliver the liquid in the dropper to the solid in the beaker. After all of the liquid has been emptied from the dropper, swirl the beaker to ensure proper mixing. Remass together the beaker with its contents and the empty dropper. Record your results and observations, calculating any change in mass.

Part 5: materials: beaker with solution, dropper with pink solution

Mass together the beaker with the solution and the dropper with the pink solution. Empty the contents of the dropper into the beaker. Remass the beaker with its contents and the empty dropper. Record your results and observations, calculating any change in mass.

All solutions may be rinsed down the sink with lots of water. Return all materials (RINSED!!!) to the designated area.