

Investigating Gas from Bath Bombs in a Bottle

Follow these procedures to help determine your answer to the question “Is the gas coming from the bath bombs already there to start with?”

1. Measure 100 mL (100 g) of water into the bottle.

2. Put 8 mini bath bombs (from Recipe B) into a small plastic test tube.



3. Carefully slide the test tube of bath bombs into the bottle so they don't spill into the water.



4. Tighten the cap onto the bottle.

5. Obtain the mass for the whole system. Record the mass.



6. Turn the bottle over to mix the bath bombs into the water.



7. Wait for the bubbles to stop fizzing.

8. Obtain and record the mass of the whole system again.



9. Slowly remove the cap.

10. Obtain the mass of the whole system (including the bottle cap). Record the mass.



11. Rinse out the bottle for other students to use, and put away materials as directed.