



Where did it go?

When you dissolve sugar in water, where does the sugar go? One way to find out is to measure the mass of the water and sugar before and after mixing.


Procedure

1. Read and complete a lab safety form.
2. Add **sugar** to a **small paper cup** until the cup is approximately half full. Using a **funnel** inserted into a **balloon**, pour the sugar into the balloon. Remove the funnel from the balloon.
3. With the balloon hanging over the side, stretch the neck of the balloon over a **flask** half full of **water**.
4. Use a **balance** to find the mass of the flask-balloon assembly. Record the mass in the Data and Observations section below.
5. Lift the end of the balloon, and empty the sugar into the flask. Swirl until the sugar dissolves. Measure and record the mass of the flask-and-balloon assembly again.

Data and Observations

Think About This

1. Is the sugar still present after it dissolves? How do you know?

2.  **Key Concept** Based on your observations, what do you think happens to the mass of objects when they dissolve? Explain.
