

Name: _____

Date: _____

Laboratory Challenge 1: Determine the Percent by Mass of Sugar in a Soft Drink

Problem

You will be given a sample of 7-Up that has been allowed to stand open. You also will be provided with some sucrose, distilled water, measuring devices, and a variety of containers. Graph paper will be provided. Devise and carry out an experiment to determine the percent by mass of sugar in a sample of 7-Up.

Given

The molar mass of sucrose: $C_{12}H_{22}O_{11}$ is 342.30 g/mol

Experimental Plan

Materials

Before beginning your experiment, you must get approval from the instructor.	Examiner's Signature
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Procedure

Data and Observations

Calculations:

Explain what assumptions were made in determining the mass percent above. How does this assumption influence the mass percent you calculated?