Determine percent composition of alcohol in an unknown solution

Abstract

Vlabs interface has many short problems for solving, for the student. One of them is to determine the percentage of alcohol in a given solution. Few simple concepts are used to solve this problem. Teachers can use this example to demonstrate that, the science students learn in class, are utilized in various job scenarios and occupations later on. Items provided to the student are,

- Weighing scale
- Measuring cylinder
- Conical flask
- A 70% standard solution of alcohol and 1 M alcohol
- Two unknown percentage solutions

Concepts covered

- Students can learn about molarity to v/v percentage conversion,
- Weigh solutions and calculate density
- Drawing a standard graph
- Find m and c values from a y=mx+c line graph
- Finding unknown value from the standard graph