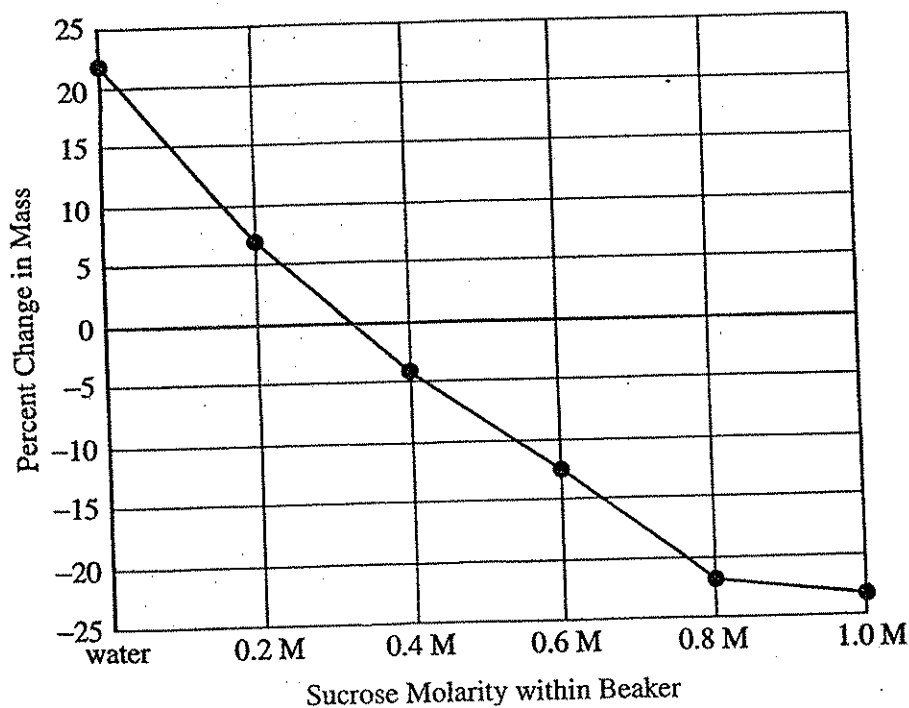


**Table 1.5: Potato Core Results — Class Data**  
(from page 11 in the student manual)

Percent change in mass of potato cores for one student group.

Contents in Beaker	Percent Change in Mass
a) Distilled Water	21.4
b) 0.2 M Sucrose	6.9
c) 0.4 M Sucrose	-4.5
d) 0.6 M Sucrose	-12.8
e) 0.8 M Sucrose	-23.0
f) 1.0 M sucrose	-23.5

**Graph 1.2: Percent Change in Mass of Potato Cores at Different Molarities of Sucrose**  
(from page 12 in the student manual)



Read the molar concentration of the sucrose from the point where the curve crosses the x-axis. In the sample graph shown here, this is approximately .32, but students should determine the value from their own data.

## EXERCISE 1B: Osmosis

### SAMPLE RESULTS

**Table 1.2: Dialysis Bag Results — Group Data**  
(from page 5 in the student manual)

Contents in Dialysis Bag	Initial Mass	Final Mass	Mass Difference	Percent Change in Mass
a) 0 M (Distilled Water)	26.0g	26.3g	0.3g	+1.2
b) 0.2 M Sucrose	26.2g	27.0g	0.8g	+3.1
c) 0.4 M Sucrose	26.1g	28.1g	2g	+7.7
d) 0.6 M Sucrose	26.4g	29.3g	2.9g	+11.0
e) 0.8 M Sucrose	26.3g	30.2g	3.9g	14.8
f) 1.0 M Sucrose	26.4g	31.2g	4.8g	+18.2

### PROCEDURE

**Table 1.3: Dialysis Bag Results — Class Data**  
(from page 6 in the student manual)

Table 1.3 will depend on the data your class collects.

#### Graph 1.1

(from page 6 in the student manual)

10. a. Independent variable: Molarity of the Contents of the Dialysis Tubing  
b. Dependent variable: Percent Change in Mass

**Title:** Percent Change of Mass of Contents of Dialysis Tubing in Solutions of Different Molarity

The graph will depend on the class data.