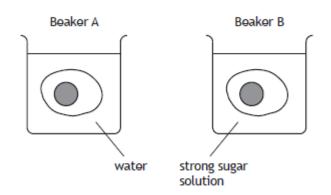
Homework 3: Transport Across The Cell Membrane

1.

(a) Shells can be removed from eggs by dissolving them in vinegar for 2-3 days. The egg contents remain inside a thin membrane.

In an investigation the shells from two eggs were removed. The eggs were then weighed and placed in beakers as shown below.



After 2 hours the eggs were removed from the beakers, blotted dry and reweighed. The results are shown in the following table.

Beaker	Mass at start <mark>(</mark> g)	Mass after 2 hours (g)	Percentage change in mass
А	54-0	67-5	
В	52-1	47.8	-8-2

 Complete the table by calculating the percentage change in mass for beaker A.

1

Space for calculation

(ii) Suggest why the eggs were blotted dry before being reweighed. 1

(a) (continued)

(iii)	Choose either beaker A or B and explain how osmosis caused the change in mass of the eggs in that beaker.
	Beaker

Explanation_____

2

1

(b)	The movement of molecules in or out of cells can be by passive or active transport.
	Describe one difference between passive and active transport.

2. Give two differences between active Transport and Osmosis.