Name: Kecy	Teacher:	
option 1. Write a definition for the word diffusion The movement of (solutive concentration) are in higher concentration.	•	area where the one
		(2 marks)
2. Write a definition for the word osmos The movement of water r to a more cover brain	ndecules from a dily	ite solute soluti
		Pthrough a sen
permeable membra r an over of high concentration to a concentration. 3. During the 'osmosis egg' experiments The Mass of	nerwater molecula an area of lower wo	e (2 marks) Exter molecule ependent variable? (1 mark)
4. During the 'osmosis egg' experiment of The Solution Of The amount	which was done in class, what was the in concentration. of Salt (solute)	
5. During the 'osmosis egg' experiment value been increased.	vhich was done in class, explain one way	accuracy could have
multiple trials or Repeat the	more eggs.	tested)
or increase Sand	de size	

(1 mark)

The mass of one hundred (100) raisins was measured. The raisins where placed in 1 litre of distilled water and left for 48 hours. After 48 hours, the mass of the raisins was recorded. Another one hundred (100) raisins of the same variety had their mass measured. This second group of raisins were placed in a beaker containing 1 litre of concentrated sugar solution. After 48 hours the raisins were removed from the beakers and their mass was recorded.

This data is shown in the table below.

Solution raisins were placed in	Starting mass (g)	Mass (g) after 48 hours
Distilled water	50	120
Sugar solution	50	55

a) What was the independent variable for this investigation?	
Sugar(or solute) concentration.	(1 mark)
b) What was the dependent variable for this investigation? Raisins.	(1 mark)
c) List two controlled variables mentioned.	
48 hrs (time). Type of Raisins. 1	lumber
draisins. Volume of Solution	ov.
48 hrs (time). Type of Raisins. 19 of raisins. Volume of Solution	(2 marks)
d) Draw a graph that allows you to COMPARE the results of the experiment.	
- must have suitable heading Must be column/bar Graph Solution on horizontal axis.	(5 marks)
- Axis labelled - Unit of measure give. poul	they
1	

e) Discuss two ways in which the experiment could be improved in order to reduce error and improve
accuracy.
multiple trials (1)
Repeat (1)
heep controlled variables antrolled
increuse set sample size
(2 marks)
f. Complete the sentences below by filling in the blank words. Use the information you have learnt about the movement of water molecules.
If the raisin was a model of a living cell, the skin of the raisin would represent the Mem orca recommendation of the cell.
A solution with a large amount of solvent compared to solute can be described as a solution.
The water molecules moved from an area where there was a concentration of
water molecules, to an area where there was a $\frac{100000}{100000000000000000000000000000$
The water molecules moved due to the concentration gradient.
(5 marks)