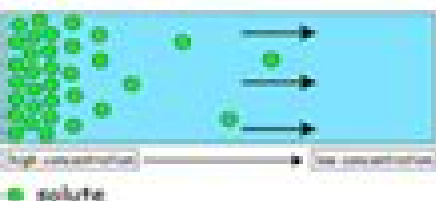


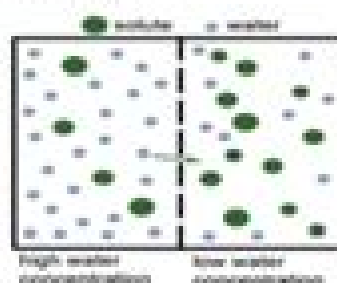
## Diffusion



Solute transport is from the left to the right; movement of the solutes is due to the concentration gradient (diffusion).

Diffusion is the movement of molecules from a \_\_\_\_\_ to a \_\_\_\_\_.

## Osmosis



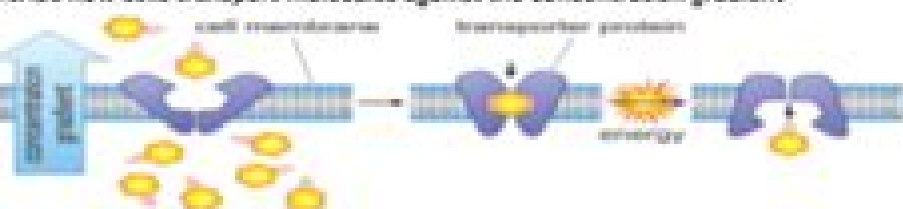
Osmosis is the movement of water from a \_\_\_\_\_ to a \_\_\_\_\_.

\_\_\_\_\_ across a \_\_\_\_\_.

A 5g piece of potato is left in water for an hour. Its mass becomes 8.5g. Calculate the percentage change in mass.  
Percentage change = \_\_\_\_\_

## Active Transport

Describe how cells transport molecules against the concentration gradient.



Explain another reason apart from against the concentration gradient as to why active transport is needed to move the molecules.

Explain how cells that carry out a lot of active transport would be adapted to their function? – What would they contain to allow them to release a lot of energy.

## Osmosis Core Practical

Potatoes are weighed using a balance and are placed in different concentration of sugar solutions. After 15 mins they are taken out and weight again. Below is its results.

|                             | A      | B    | C     | D    |
|-----------------------------|--------|------|-------|------|
| Sucrose concentration (%)   | 0      | 10   | 30    | 50   |
| Mass of potato at start (g) | 4.81   | 5.22 | 4.94  | 4.86 |
| Mass of potato at end       | 4.90   | 4.96 | 4.39  | 3.69 |
| Change in mass              | +0.09  |      | -0.55 |      |
| Percentage change           | +1.87% |      |       |      |

Calculate the gain or lose in mass of the potato piece.

Calculate the percentage change in the potato piece.

Give a reason for test tube A.

\_\_\_\_\_

\_\_\_\_\_

Explain the results for test tube B- D.

\_\_\_\_\_

\_\_\_\_\_

Explain why a slice of potato will decrease in mass if it is placed in a concentrated sugar solution.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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**Ying Liu**

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