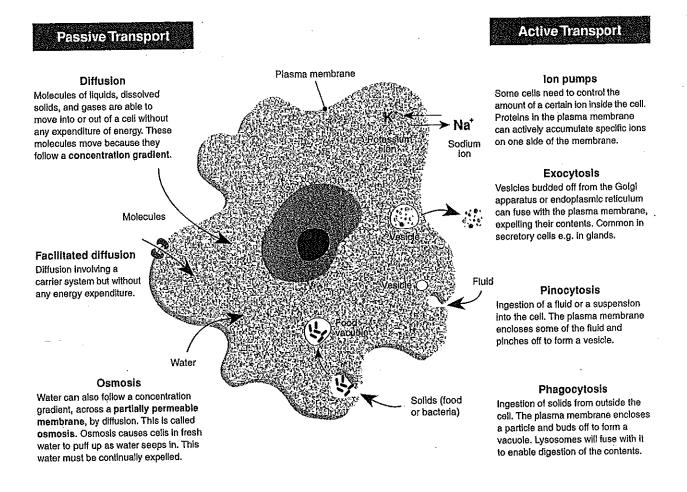
ACTIVE & PASSIVE TRANSPORT

Cells have a need to move materials both into and out of the cell. Raw materials and other molecules necessary for metabolism must be accumulated from outside the cell. Some of these substances are scarce outside of the cell and some effort is required to accumulate them. Waste products and molecules for use in other parts of the body must be 'exported' out of the cell.

Some materials (e.g. gases and water) move into and out of the cell by passive transport processes, without the expenditure of energy on the part of the cell. Other molecules (e.g. sucrose) are moved into and out of the cell using active transport. Active transport processes involve the expenditure of energy in the form of ATP, and therefore use oxygen.



Answer Questions on the Back & turn in for a grade

Name	Score	/ 30 points
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~Questions~

1) An example of an ion pump is the sodium/potassium pump. Explain how this pump fuin the human body.	
	(2)
2) Endocytosis is when a	
	_ (2 pts)
3) Two examples of Endocytosis are &	(2
4) What is the difference between your answers from #3?	
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5) Name three types of passive transport.	
	_ (3 pts)
6) Name four types of active transport.	(4 pts)
7) Name at least two differences between active and passive transport.	
	_ (2 pts)
8) What is an ion pump?	_ (2 pts)
9) How does facilitated diffusion work?	
	_ (2 pts)
10) What type of materials can move in and out of the cell during passive transport? (2 pt	s)
11) What type of materials can move in and out of the cell during active transport? (2 pt)	
12) How is diffusion able to work?	
	_ (2 pts)