## How Things Get into and out of Cells

## I. Membrane Transport Reading:

They say (summary)





## II. Checking Understanding

	A. What kind of transport is being shown at I Why?
	II Why?
	111 Why?

Complete the following sentences (word bank below). It involves both this reading and previous material you've learned.

- 1. The most important property of the cell membrane is that it is \_\_\_\_\_\_
- 2. The model that explains the structure of the membrane is the \_\_\_\_\_ model.
- 3. The main molecule that creates the framework of the membrane is the \_\_\_\_\_
- 4. Membrane channels are made of \_\_\_\_\_
- 5. Membrane \_\_\_\_\_\_ are important when the immune system is recognizing cells that belong to your body.
- 6. Phospholipids are arranged into a \_\_\_\_\_
- 7. How do molecules like oxygen and carbon dioxide pass through the membrane? \_\_\_\_\_
- 8. How do polar and charged substances pass through the membrane: \_\_\_\_\_\_\_
- 9. When cells move substances from lower to higher concentration, this is known as \_\_\_\_\_
- 10. When cells engulf particles outside the cell to bring them inside, it's known as \_\_\_\_\_\_.
- 11. When cells dump wastes or other materials outside the cells, it's known as \_\_\_\_\_\_.
- 12. Active transport requires the cell to use \_\_\_\_\_
- 13. Diffusion is based on the \_\_\_\_\_\_ movement of molecules.
- 14. The head of a phospholipid is \_\_\_\_\_\_ and \_\_\_\_\_. The tail is

\_\_\_\_\_ and non-\_\_\_\_\_.

## Word bank

Active transport	Endocytosis	Facilitated diffusion	hydrophobic	polar	Semi-permeable
Bilayer	Energy	Fluid mosaic	non-polar	Protein	Simple diffusion
Carbohydrates	Exocytosis	hydrophilic	Phospholipid	Random	

**III**. Using the following academic language to compare/contrast the following pairs: 1) simple diffusion and facilitated diffusion. 2) Passive and active transport. 3) Endocytosis and exocytosis. Talk through your sentences before writing them.

Language choices		Your sentences		
• are similar	as opposed to			
<ul> <li>are similar because</li> <li>have in common</li> <li>difference between</li> <li>on the other hand</li> <li>just like</li> <li>in contrast</li> <li>compared to</li> </ul>	<ul> <li>as opposed to</li> <li>a distinction between</li> <li>share common attributes</li> <li>synonymous with</li> <li>just as</li> <li>whereas</li> <li>by comparison</li> <li>each is</li> </ul>			