	Name:
Handout on Membrane Transport	Methods
There are multiple ways that a membrane can use to a method used by the membrane depends upon the type of matany molecule would cross a membrane, consider the qualities item to cross the membrane could be an ion, a small molecul cell. For whatever transported item you are trying to understand following questions to end up with the appropriate method of	rerial crossing it. To determine how s of the material in question. The e, a large molecule, or even an entire tand at any moment, just answer the
1. Is the item hydrophobic? <i>If yes</i>	This is: (circle)
If no	passive transport active transport Specific type of transport:
2. Is the item larger than a monomer? <i>If yes</i>	
If no	
3. Is the item water? <i>If yes</i>	This is: (circle) passive transport active transport
If no	Specific type of transport:
4. Is the item moving along its concentration gradient? <i>If yes</i>	This is: (circle) passive transport
If no	Specific type of transport

This is: (circle) passive transport active transport

Specific type of transport:

active transport

Specific type of transport:

Now figure out how each of the following would cross the membrane of the cell below. Gradients, where necessary, can be inferred from the information in the diagram. All you have to do is put the number for the type of transport on each arrow.

- 1. simple diffusion
- 2. facilitated diffusion
- 3. osmosis
- 4. active transport using pumps
- 5. active transport using vesicles

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