Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class Pd: \_\_\_\_\_\_

Cell Transport Quiz

**Matching (#1- 8)**

Match the following descriptions with the appropriate word. You will need to use the words more than once.

1. \_\_\_\_\_\_\_ Transport of materials across a semi-permeable membrane from an area of low to high concentration
2. Osmosis
3. Active transport
4. Passive transport
5. Exocytosis
6. Endocytosis
7. \_\_\_\_\_\_\_ Transport of materials across a semi-permeable membrane from area of high to low concentration
8. \_\_\_\_\_\_\_ Transport of material through pores in a membrane
9. \_\_\_\_\_\_\_ Transport of materials through transport proteins
10. \_\_\_\_\_\_\_ Transport of materials into a cell using a vesicle & cell membrane.
11. \_\_\_\_\_\_\_ Transport of materials out of a cell using a vesicle & cell membrane.
12. \_\_\_\_\_\_\_ Transport of materials across a semi-permeable membrane that requires energy.
13. \_\_\_\_\_\_\_ Transport of materials across a semi-permeable membrane that does not require energy.

Use the below answers to answer questions 9- 10. Each question may have multiple answers. You may use an answer more than once.

* 1. Materials are large
  2. Materials are small
  3. Materials are moving from an area of high concentration to an area of low concentration
  4. Materials are moving from an area of low concentration to an area of high concentration

1. \_\_\_\_\_\_\_\_ When would it be appropriate for a cell to perform active transport?
2. \_\_\_\_\_\_\_\_ When would it be appropriate for a cell to perform passive transport?
3. Endocytosis and exocytosis are both a form of \_\_\_\_\_\_\_\_\_\_\_\_\_ transport.

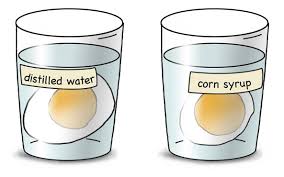
Why?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Describe the process of diffusion.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

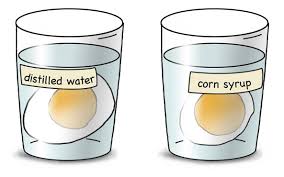
An egg is a reproductive cell of a chicken. There is a thin membrane below the shell and if the shell is removed, the semi-permeable membrane is exposed. Use the pictures below to help you answer numbers 13 and 14.



1. If the egg is left in water, in which direction will the water move?
   1. Into the cell
   2. Out of the cell
   3. No water will move

Why?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. If that same large cell is then put into a cup of corn syrup or very salty water, in which direction will the water move?
   1. Into the cell
   2. Out of the cell
   3. No water will move

Why?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What process is being used in questions 15 & 16?
   1. Active transport
   2. Passive transport
   3. Osmosis
   4. Diffusion
2. Describe two reasons that a cell would transport materials into or out of it. Please write in compete sentences.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Which characteristic of life does transport support?
   1. Organization
   2. Uses energy
   3. Reproduction
   4. Response to stimuli
   5. Growth and development
   6. Maintains homeostasis

How so?  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_