**Cell Membrane Intro WS**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Substance can move across the membrane via simple diffusion, facilitated diffusion, or active transport.

Complete the chart:

|  |  |  |  |
| --- | --- | --- | --- |
|   | Where does it occur in the membrane? | Does it require a transport protein? | Does it require an input of energy? |
| Simple diffusion |   |   |   |
| Facilitated diffusion |   |   |   |
| Active transport |   |   |   |

1. Match the cell membrane function or structure with the correct letter from the diagram to the right.

\_\_\_ Attracts water

\_\_\_ Involved in cell-cell recognition

\_\_\_ Repels water

\_\_\_ Make up the bilayer

\_\_\_ Help transport certain materials across membrane

\_\_\_ Help maintain the structure

1. Define these three terms:
2. Hypertonic - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Hypotonic - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Isotonic - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Use arrows to show the direction of water movement into or out of each cell. Label the cell in an isotonic environment, the hypotonic environment, and the hypertonic environment.



