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Osmosis and Active Transport

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| **Across**  **2.** They let some substances pass through them, but not others.  **8.** The diffusion of water molecules from high to low concentration.  **9.** A concentrated solution contains a \_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_of water molecules.  **10.** They pick up specific molecules and take them through the cell membrane against the concentration gradient. | **Down**  **1.** A dilute solution contains a \_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_of water molecules.  **3.** The movement of dissolved molecules into or out of a cell through the cell membrane, from low to high concentration (up the gradient) . Requires ATP.  **4.** The difference between the concentration inside and outside of the cell.  **5.** The semipermeable membrane surrounding the cytoplasm of a cell.  **6.** Effected by temperature, steepness of the gradient, size of the solute and electric or pressure gradients.  **7.** The type of transport that requires no ATP, goes from high to low concentration (down the gradient) |