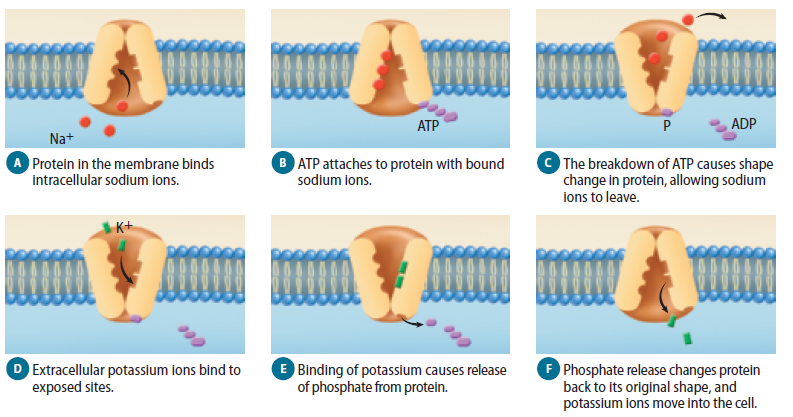
* What is the process of active transport?
* How do large particles enter or exit cells?

ESSENTIAL QUESTIONS:

* Active Transport
  + Sometimes substance must move \_\_\_\_\_\_\_\_\_\_\_\_\_\_ the concentration gradient (from \_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_ concentration). This requires \_\_\_\_\_\_\_\_\_\_\_\_\_\_ (ATP) and is called **active transport**.
  + Occurs with the aid of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ proteins, often called \_\_\_\_\_\_\_\_\_\_\_\_.
* Example of Active Transport: Na+/K+ ATPase Pumps
  + Found in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of animal cells.
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ levels of sodium (Na+) and potassium (K+) inside/outside the cell.
  + Large molecules like \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ need to move \_\_\_\_\_\_\_\_\_\_\_\_\_\_ a concentration gradient to get into the cell.
  + In a process called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, sugars can pair with Na+ ions and enter the cell through a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ protein called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ channel.
  + This allows sugars to enter through \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - saving energy.



* Transport of Large Particles
  + **Endocytosis** is the process by which a cell \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ an object in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ environment in a portion of the plasma membrane.
  + **Exocytosis** is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of materials at the plasma membrane.