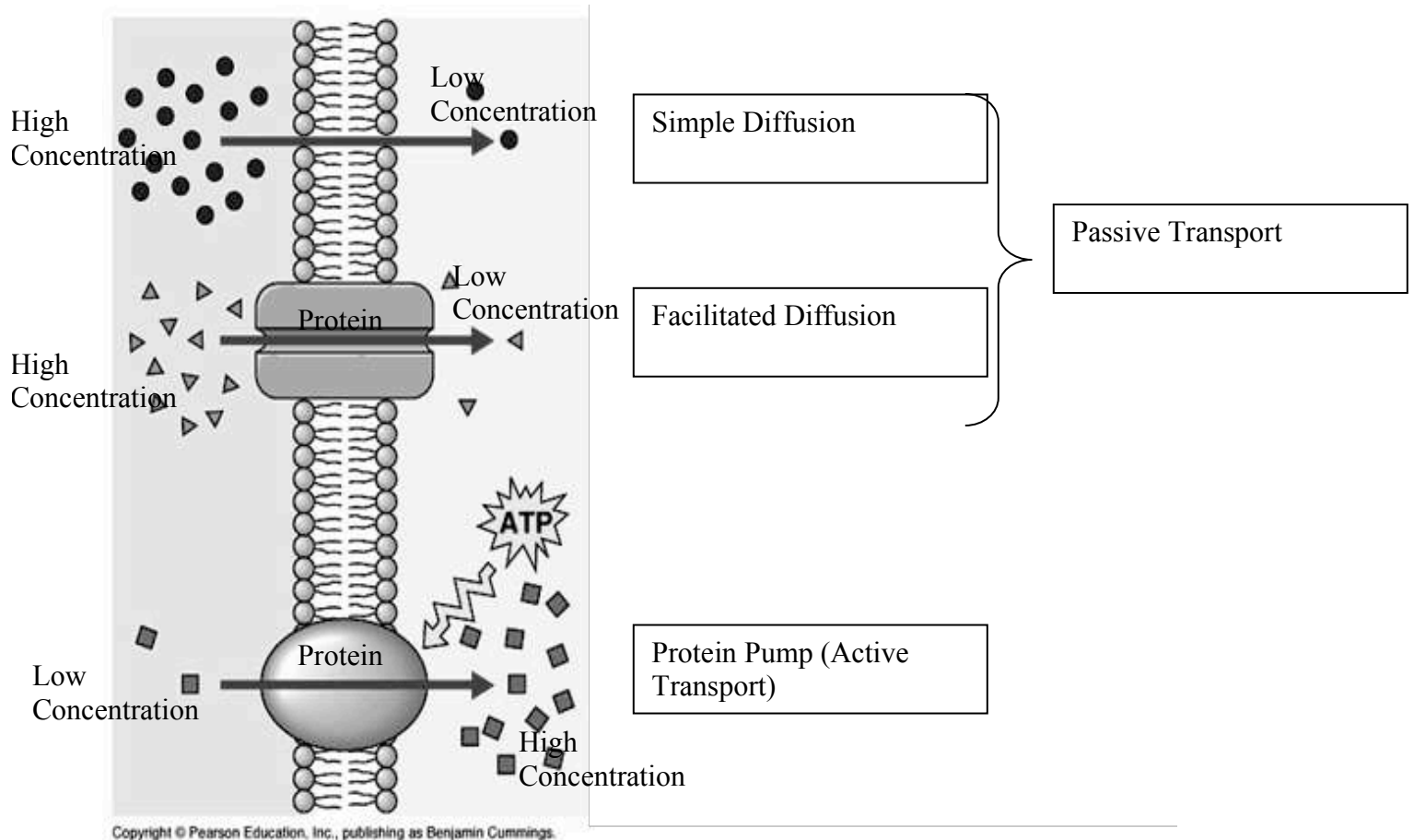


Unit 7 - The Plasma Membrane
Worksheet - Comparison of Membrane Transport

Directions: Use the diagram to complete each task or question.

1. Label each type of transport in the boxes of the diagram.
2. Identify the transport protein(s) in the diagram.
3. Label the areas of **high** concentration for each molecule (shape).
4. Label the areas of **low** concentration for each molecule (shape).



5. How is ATP used in the bottom diagram? Why is it essential?
ATP is used to “power” the protein pump. Phosphorylation causes the protein pump to change shape and push molecules across the plasma membrane. This allows molecules to be pushed from areas of low concentration to areas of high concentration.
6. Why do the molecules “want” to move across the membrane in the first two diagrams?
Diffusion causes molecules to move from areas of high concentration to areas of low concentration.
7. Why is it important for molecules to be able to travel into and out of your body’s cells?
Nutrients need to be able to move into cells as needed. Likewise, cellular waste and important cellular products need to be moved out of the cell as needed.