

SCI.4 Pre-writing Activity

Using the tables below, compare and contrast the ideas given using your guided notes for answers.

[Cell transport powerpoint presentation](#)

What are the differences and similarities between Active Transport and Passive Transport?

Active Transport	Passive Transport
Uses energy?	Uses energy?
Direction of flow?	Direction of flow?
Concentration Gradient Present?	Concentration Gradient Present?
Uses Vesicles?	Uses Vesicles?
Includes Osmosis?	Includes Osmosis?
Sodium Potassium Pumps?	Sodium Potassium Pumps?
Includes Protein Channels?	Includes Protein Channels?

What are the differences and similarities between endocytosis and exocytosis?

Endocytosis	Exocytosis
Uses vesicles?	Uses vesicles?
Vesicle forms in the Golgi?	Vesicle forms in the Golgi?
Vesicle forms at the surface of the cell?	Vesicle forms at the surface of the cell?
Moves large particles into the cell?	Moves large particles into the cell?
Moves large particles out of the cell?	Moves large particles out of the cell?

What are the differences and similarities between diffusion and osmosis?

Osmosis	Diffusion
<p>Uses Energy?</p> <p>Moves molecules across the cell membrane?</p> <p>Follows concentration gradient?</p> <p>Moves water molecules?</p> <p>Moves Carbon Dioxide and Oxygen molecules?</p> <p>Molecules move down the concentration gradient until the molecules are in equal concentration?</p>	<p>Uses Energy?</p> <p>Moves molecules across the cell membrane?</p> <p>Follows concentration gradient?</p> <p>Moves water molecules?</p> <p>Moves Carbon Dioxide and Oxygen molecules?</p> <p>Molecules move down the concentration gradient until the molecules are in equal concentration?</p>