1.4 Membrane Transport

Types of Transport

Outline the two key qualities of plasma membranes

1. ……

2. ……

Distinguish between passive transport and active transport

Passive Transport	Active Transport
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Passive Transport

Define simple diffusion

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Describe the process of facilitated diffusion

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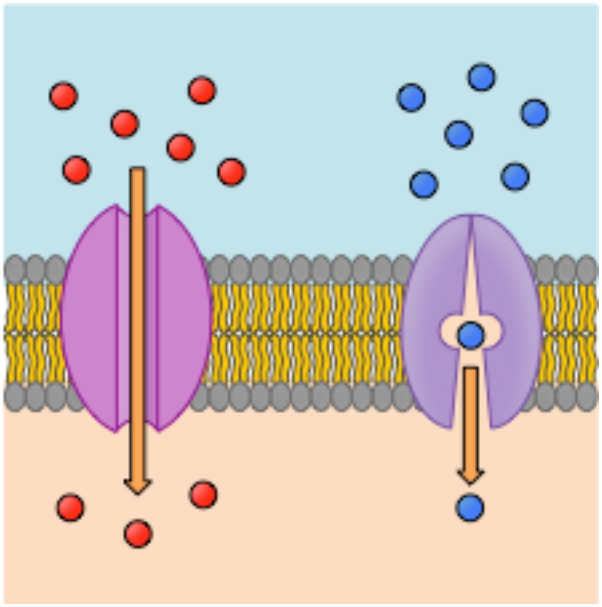

List three molecules that are transported by simple diffusion and facilitated diffusion

Simple Diffusion: ……

Facilitated Diffusion: ……

Describe how the structure of the potassium channel facilitates diffusion in nerve cells

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Osmosis

Describe the relationship between solutes and solvents in a solution

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Define osmosis

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Differentiate between hypertonic, hypotonic and isotonic solutions

	Solute Concentration	Effect on Cell
Hypertonic		
Hypotonic		
Isotonic		

Define osmolarity

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Explain why the osmolarity of a solution affects animal cells and plant cells differently

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Active Transport

Distinguish between primary (direct) active transport and secondary (indirect) active transport

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Describe how the structure of the sodium-potassium pump enables active transport in nerve cells

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Vesicular / Bulk Transport

Outline the role of vesicles in the transport of materials between organelles

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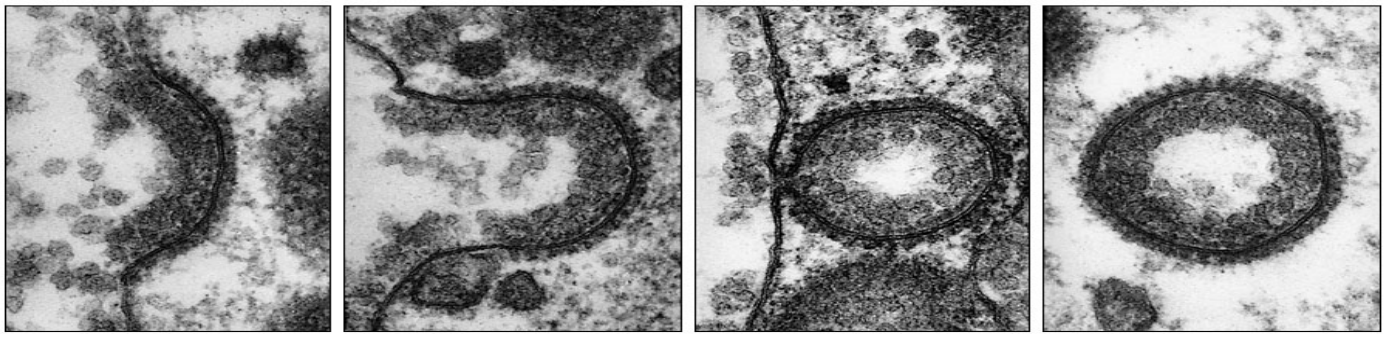
Use the diagram below to explain the process of endocytosis



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Differentiate between phagocytosis and pinocytosis

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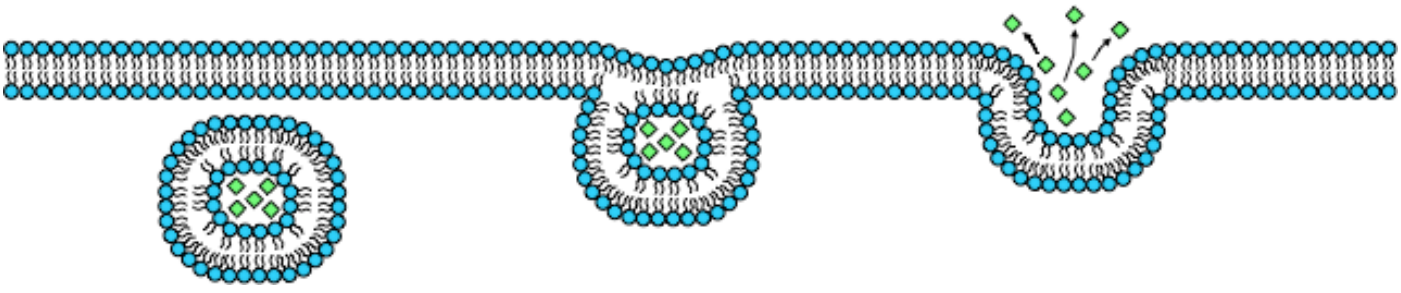
Use the diagram below to explain the process of exocytosis



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