HOW DO SUBSTANCES MOVE IN AND OUT OF CELLS?

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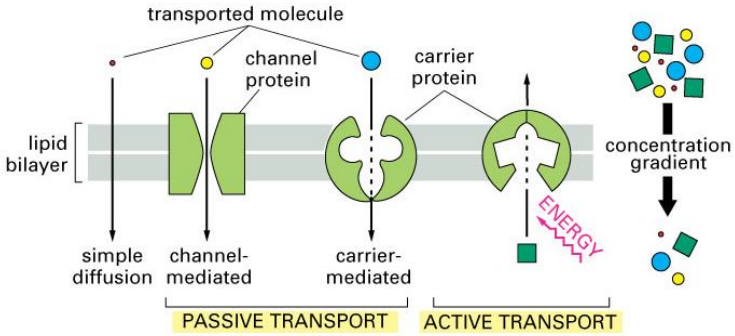
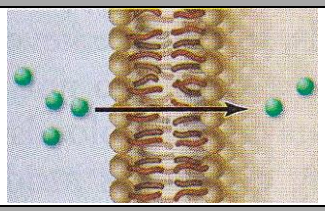
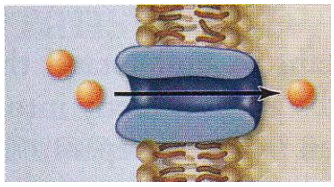
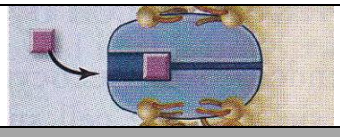
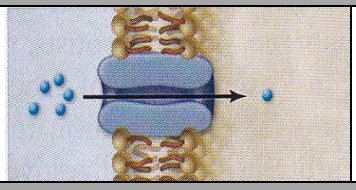


Selectively Permeable:

Passive Transport:

Active Transport:

MECHANISMS FOR TRANSPORT ACROSS CELL MEMBRANES

Process	Diagram	How It Works	Example(s)
PASSIVE PROCESSES			
DIFFUSION			
Simple Diffusion			
FACILITATED DIFFUSION			
Protein channel (uniporter)			
Protein carrier (uniporter)			
OSMOSIS			
Aquaporins (uniporter)			

OSMOSIS & TYPES OF SOLUTIONS

Hypotonic	Isotonic	Hypertonic
 cell expands	 cell normal	 cell shrinks

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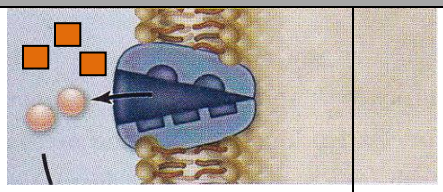
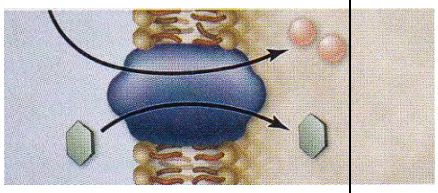
ACTIVE PROCESSES

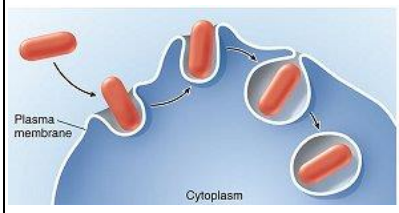
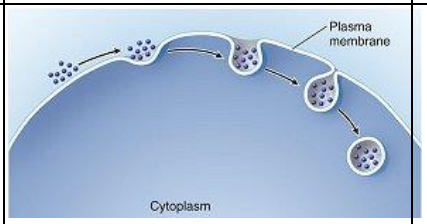
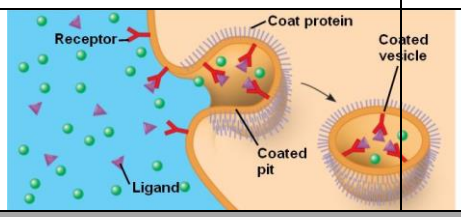
ACTIVE TRANSPORT

Protein carrier

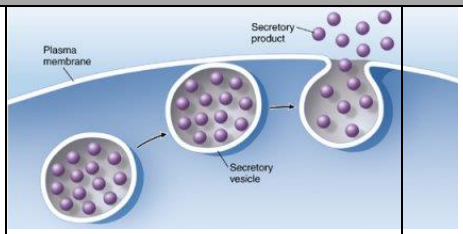
Antiporter			
Coupled transport (symporter)			

BULK TRANSPORT

ENDOCYTOSIS

Phagocytosis			
Pinocytosis			
Receptor-mediated endocytosis			

EXOCYTOSIS

Exocytosis			

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