

Membrane Structure

Describe the location structure, , and function of the following components of cell membranes

Component	Location	Structure	Function
phospholipid			
cholesterol			
transport protein			
receptor protein			
recognition protein			
adhesion protein			

Membrane Structure

Diagram the *fluid mosaic model* of the cell membrane, using Figure 5.3 (page 81) to help.



Movement Across Membranes: Definitions

Define the following terms relating to cell transport mechanisms

semipermeable membrane	
concentration gradient	
isotonic	
hypertonic	
hypotonic	

Transport Mechanisms

Define and describe the following cell transport mechanism

Mechanism	Substance(s)	Direction of Flow	Energy requirement?	Transport Proteins?
diffusion				
osmosis				
passive transport				
active transport				
endocytosis phagocytosis pinocytosis				
exocytosis				

Movement of Water Across Membranes

Describe and draw what happens when Red Blood Cells are placed in the following solutions.
 Use the diagram (bottom left, page 86) to help.....note the order of the solutions below does NOT correspond to the order on page 96

Hypotonic Solution	Isotonic Solution	Hypertonic Solution

Predict what would happen to potato slices placed in the following solutions:

Distilled Water	Slightly Salty Water	Very Salty Water