

## 3.1 Movement of Substance Across the Plasma Membrane

## Structure of the Plasma Membrane

1. S.J. Singer and G. L. Nicolson introduced the fluid-mosaic model of plasma membrane.
  - Proteins are dispersed throughout the phospholipid bilayer.
  - Proteins float about in phospholipid bilayer to form a mosaic pattern that always changes.
  - Plasma membrane present in a flexible, non-static and dynamic state.
2. Plasma membrane composed mainly of phospholipid bilayer and proteins.

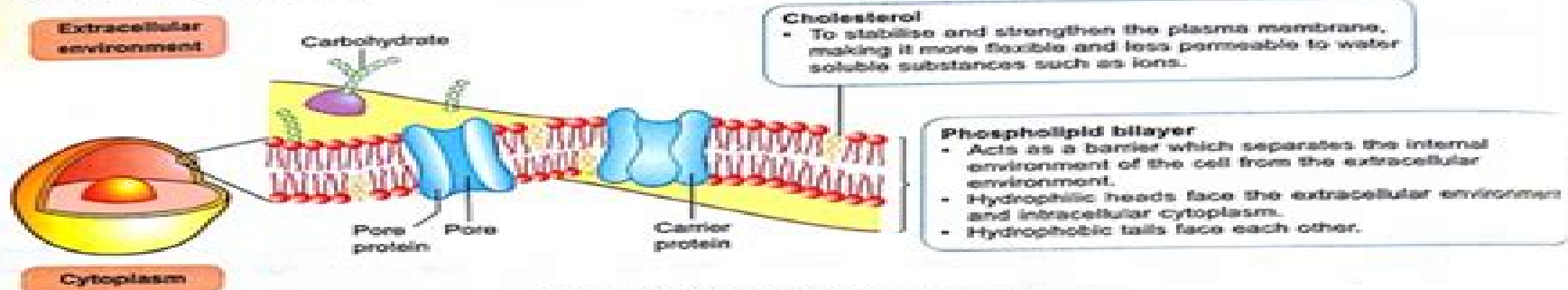


Diagram 3.1 Structure of plasma membrane

## Characteristics of Plasma Membrane

1. Selectively permeable
  - It only allows certain substances to pass through but not others
2. Dynamic or flexible

Table 3.1 Components of plasma membrane

Components of plasma membrane	Phospholipid bilayer	Transport proteins	
		Carrier protein	Pore protein
Characteristics	A triglyceride	A protein	A protein
Substances that move across the plasma membrane	<ul style="list-style-type: none"> <li>• Lipid soluble molecules</li> <li>• Non-polar molecules</li> <li>• Small molecules</li> </ul>	<ul style="list-style-type: none"> <li>• Large molecules</li> <li>• Water soluble molecules</li> </ul>	<ul style="list-style-type: none"> <li>• Small molecules</li> <li>• Water soluble molecules or polar molecules</li> </ul>

## Functions of plasma membrane

1. To control the substances that are entering or leaving the cell
2. To maintain a constant internal environment (homeostasis) of the cell
3. For gaseous exchange
4. To transport nutrients into the cell
5. To excrete waste products out from the cell

## Express Tips



# Form 4 Biology Chapter 3 Notes

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comprehensive movement program uses the story of biological evolution as a tool to increase strength flexibility and body awareness Readers learn to unlearn inherited bodily habits by embodying the many forms that life has expressed on Earth from the single cell to the human being and shifting their perception Through this evolutionary movement the body s native intelligence is revived and new movements can be learned enabling the body to overcome chronic musculoskeletal complaints such as lower back shoulder and neck pain and to meet whatever challenges it is faced with [Resources in Education](#) ,2001-10

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for sensory perceptual nonconceptual representations Neander draws on insights from state space semantics which appeals to relations of second order similarity between representing and represented domains causal theories of reference which claim the reference relation is a causal one and teleosemantic theories which claim that semantic norms at their simplest depend on functional norms She proposes and defends an intuitive theoretically well motivated but highly controversial thesis sensory perceptual systems have the function to produce inner state changes that are the analogs of as well as caused by their referents Neander shows that the three main elements functions causal information relations and relations of second order similarity complement rather than conflict with each other After developing an argument for teleosemantics by examining the nature of explanation in the mind and brain sciences she develops a theory of mental content and defends it against six main content determinacy challenges to a naturalized semantics

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