

Biology Summary Book

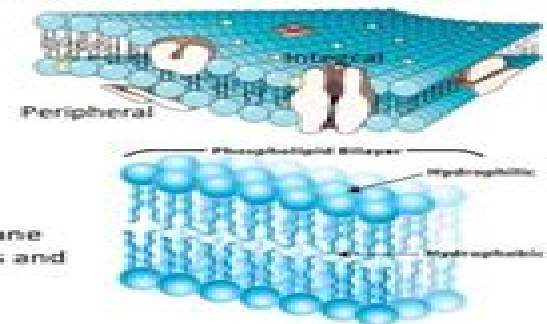
Unit 3: How do cells maintain life?

Area of Study 1: How do cellular processes work?

Key Knowledge:

- The fluid mosaic model of the structure of the plasma membrane and the movement of hydrophilic and hydrophobic substances across it based on their size and polarity
- The role of different organelles including ribosomes, endoplasmic reticulum, Golgi apparatus and associated vesicles in the export of a protein product from the cell through exocytosis
- Cellular engulfment of material via endocytosis
- Protein functional diversity and the nature of the proteome
- The functional importance of the four hierarchical levels of protein structure
- The synthesis of a polypeptide chain from amino acid monomers by condensation polymerisation

- The Plasma Membrane
 - Makes the barrier of a cell
 - Controls everything that comes in and out of a cell
- The Fluid Mosaic Model
 - Aquaporins allow water to travel through
- Membrane Structure
 - Stabilised by glycoproteins and glycolipids
 - Cholesterol
 - Fluidity and rigidity which creates a stable membrane
 - Restricts movement of the phospholipid molecules and prevents them from packing too close together
 - Prevent solidification at lower temperatures
- Membrane Proteins



Integral Proteins	Peripheral Proteins
Permanent part of the plasma membrane	Not embedded in the bilayer
Have both hydrophilic and hydrophobic regions	Acts as receptors and recognition sites. Can be attached to either phospholipid molecules or other integral proteins

➤ Types of Membrane Proteins

Type	Function
Transport proteins	Two types: channel and carrier, they allow some substances typically ions to move through
Receptor proteins	Hormones and other substances bind to these – affects cells activities. (insulin and adrenaline)
Glycoproteins	Acts as markers 'antigens', enables immune system to distinguish self from non- self

- Factors that Alter the Fluidity of the Plasma Membrane
 - Phospholipid composition and structure
 - Temperature
 - Higher temperatures causes fluidity of the membrane



Part 3 Biology Unit 05 Lesson 01 Worksheet

Kathleen Armour

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

Part 3 Biology Unit 05 Lesson 01 Worksheet:

Unveiling the Magic of Words: A Overview of "**Part 3 Biology Unit 05 Lesson 01 Worksheet**"

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