

## 2A Membranes & Transport — Cell Membranes

### Membranes:

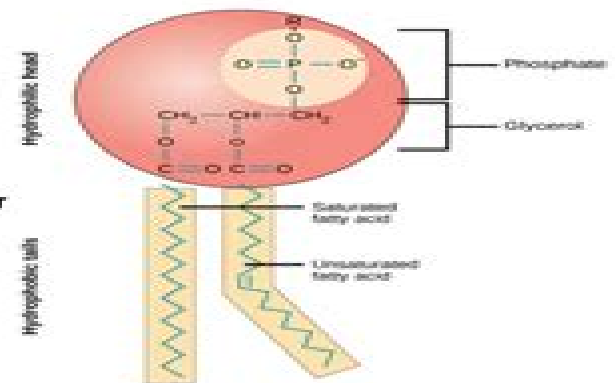
- Surrounds the organelles.
- Controls what enters and leaves the cell.
  - Acts as a **barrier/compartmentalization** of other fluids.

### Plasma:

- Holds the cell together and gives it shape.
- Controls the entry/exit of substances.
- A site for biochemical reactions.

### Phospholipids:

- In non-aqueous environments, they form a **monolayer** with the **phosphate heads in water** and the **fatty tails in the air**.
- In aqueous environments, they form a **bilayer** – with the **heads facing towards the water** and the **fatty tails facing another pair**. They are 7 nanometers.
  - This provides a **barrier to large, polar molecules**.
  - **Fat-soluble or small molecules** can pass through.
- **Amphipathic** → contains both hydrophilic & hydrophobic regions.
- **Polar** → an imbalance in charges.
- **Charged** → either gained/lost an electron.



### Membrane Fluidity:

- Affected by the proportion of *unsaturated hydrocarbons* in the bilayer.
  - **More saturated tails = viscous layer.**
  - **More unsaturated tails = fluid layer.**

### Cholesterol:

- Stabilises the membrane.
- Regulates fluidity by binding to the phospholipids.
- Reduces the permeability to charged particles.



# Wb102 01 Ial Biology 2015 January Marks Scheme

**Didier Musso**



**Wb102 01 Ial Biology 2015 January Marks Scheme:**

## Reviewing **Wb102 01 Ial Biology 2015 January Marks Scheme**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Wb102 01 Ial Biology 2015 January Marks Scheme**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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