

B 2.1 Membrane Structure

- _____ naturally form _____ sheet-like _____ in water because these molecules are _____. This is because, they have a _____ phosphate _____ and a _____ hydro-_____ tail. These tails are _____ impermeable to _____ and/or _____ molecules. This makes the _____ bilayer an effective _____.
- Draw the _____ mosaic model of the _____ membrane in the space below, labelling the structures you have included:

- Your diagram should include several membrane _____, which can have a diverse range of functions:

i) _____ proteins are _____ in one or both of the _____ layers.

When they go completely _____ the _____, these proteins can be for transport. For example, they can be _____ for passive transport, or _____ for _____ transport. They can form _____ transport chains as well.

ii) _____ proteins sit on the _____ heads.

They could act as _____ binding sites or _____ enzymes.

- In addition to these structures, there should also be _____ which are for cell-to-cell _____ and/or _____. These _____-based structures are located on the _____ part of the membrane. One could also include _____ which are similar, except bind to _____ rather than to _____.

HL component

5. _____ is part of the plasma membrane as well. It _____ the fluidity of the membrane. It _____ membranes at higher temperatures and _____ the membrane from _____ at lower temperatures.
6. The _____ of the lipids in the membrane is important. The _____ fatty _____ has a _____ melting point so membranes are _____ at typical temperatures. The _____ fatty _____ have _____ melting points so that membranes remain _____ at higher temperatures.