



PUTNEY  
HIGH SCHOOL  
—  
GDST

## Year 11 Biology

### Step into A level preparation questions

Please refer to the article : [Lipids, membranes and beyond](#)

What is the fluid-mosaic model of cell membranes and when was it first described?

What are the different varieties of lipids mentioned in the article?

Explain the difference between saturated and unsaturated fatty acids and their impact on health.

How do lipid membranes spontaneously form in an aqueous environment?

What are the unique properties of self-organized lipid membranes?

What role do membrane proteins play in cellular lipid membranes?

How has our understanding of lipid membranes changed in recent years, regarding the arrangement of specific local lipids and their impact on signalling proteins?

How is fluorescence microscopy used to study lipid membranes in living cells?

How does the underlying network of actin filaments in the cell cortex influence the movement and confinement of lipids in the cell membrane?