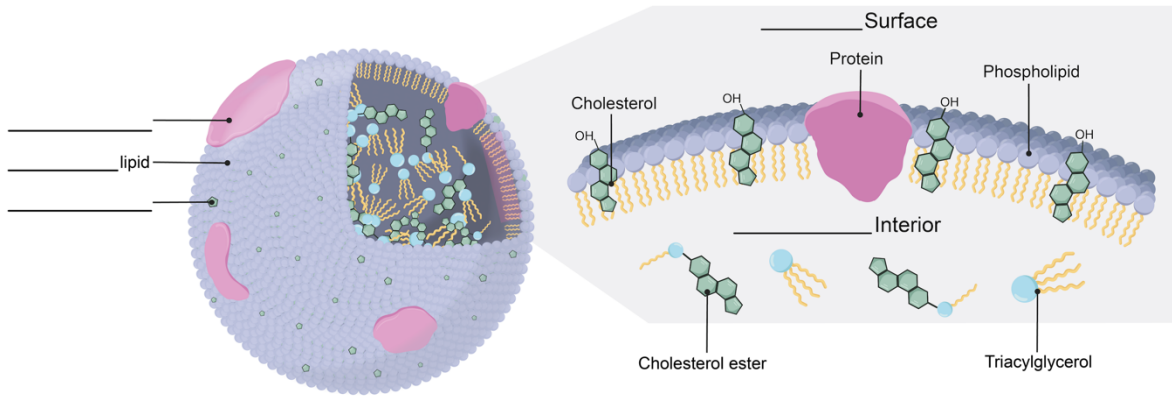


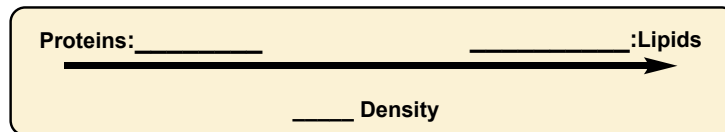
CONCEPT: LIPOPROTEINS FOR TRANSPORT

- **Recall:** lipids are nonpolar and therefore _____ in aqueous environment of the blood.
- **Lipoproteins:** spherical structures of lipids and proteins, serve as _____ vehicle for lipids.

Cholesterol esters:
cholesterol ester-bonded
to a FA.



- Lipoproteins are classified by their _____.



Types of Lipoproteins			
Name	Density	Lipids	Location
Chylomicrons	_____	All _____ lipids	• _____ to liver, adipose and other tissues.
VLDL Very low density lipoproteins	_____	_____	• _____ to adipose tissue (storage) or other tissues (energy).
LDL Low density lipoproteins	_____	_____	• _____ to various tissues (cell membranes or steroid hormones). • Excess is deposited on wall of _____.
HDL High density lipoproteins	_____	_____	• Various tissues back to _____. • Converted to _____ and excreted.

EXAMPLE: Match each lipoprotein with their correct statements.

(I) chylomicron (II) VLDL (III) LDL (IV) HDL

- _____ a) Takes triglycerides from liver to muscle cells.
- _____ b) Considered “good” cholesterol because it removes excess cholesterol from the blood.
- _____ c) Transport dietary lipids to various tissues.
- _____ d) Most of cholesterol is transported to tissues that need it by this lipoprotein.