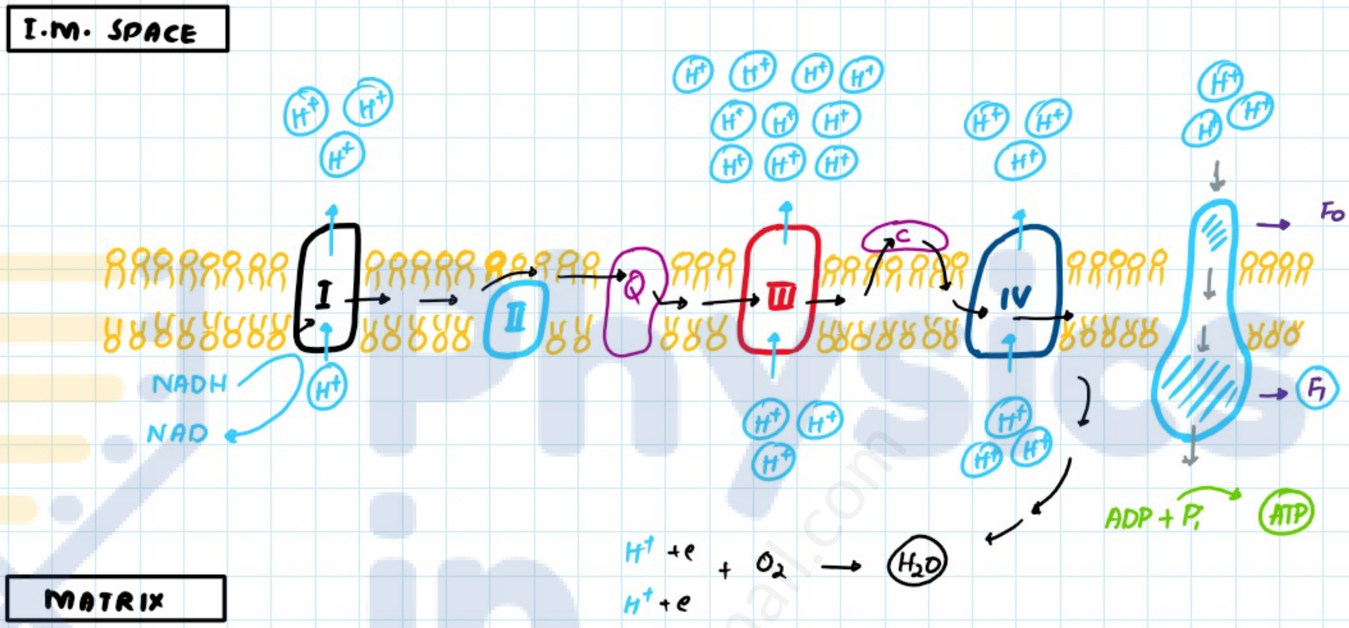
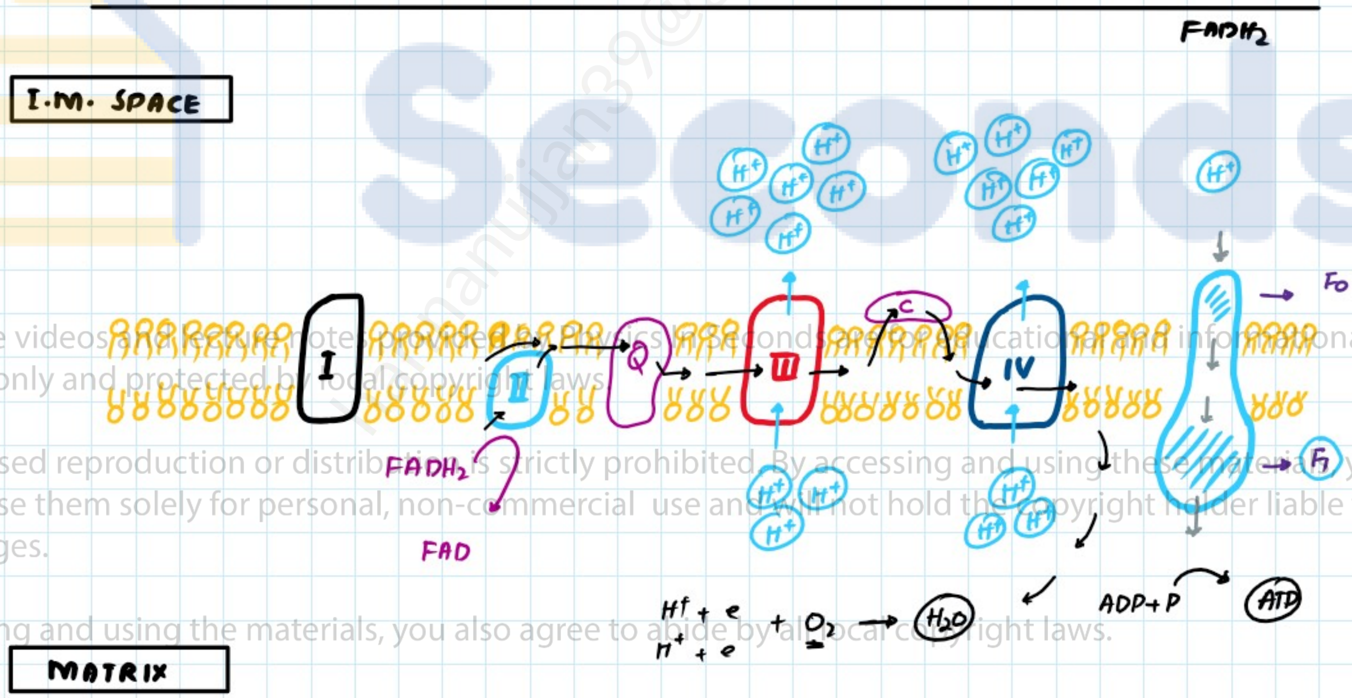
CHEMI — OSMOSIS





ENERGY BUDGET → For 1 Glucose.

	GLYCOLYSIS	P.A.O.	KREB'S CYCLE	
ATP Formation	4	–	2	→ Substrate level (OS)
ATP Used	(2)	–	–	
NADH Formation	2 ✓	2 ✓	6 ✓	→ Oxidative Phosphorylation
FADH₂ Formation			2	

ATP Used	(2)	-	-	
NADH Formation	2 ✓	2 ✓	6 ✓	⌐ Oxidative phosphorylation
$FADH_2$ Formation	-	-	2	⌐ Oxidative phosphorylation

Total NADH = 10 × 3 = 30 ATP → (34 ATP) → Oxidative phosphorylation.

Total $FADH_2$ = 2 × 2 = 4 ATP → (34 ATP) → Oxidative phosphorylation.

Total ATP for 1 Glucose → 40 ATP

Used ATP → 4 ATP

Net ATP = Total − Used

= 40 − 4 = 36 ATP → Eukaryotic cell

38 ATP → Prokaryotic cell.