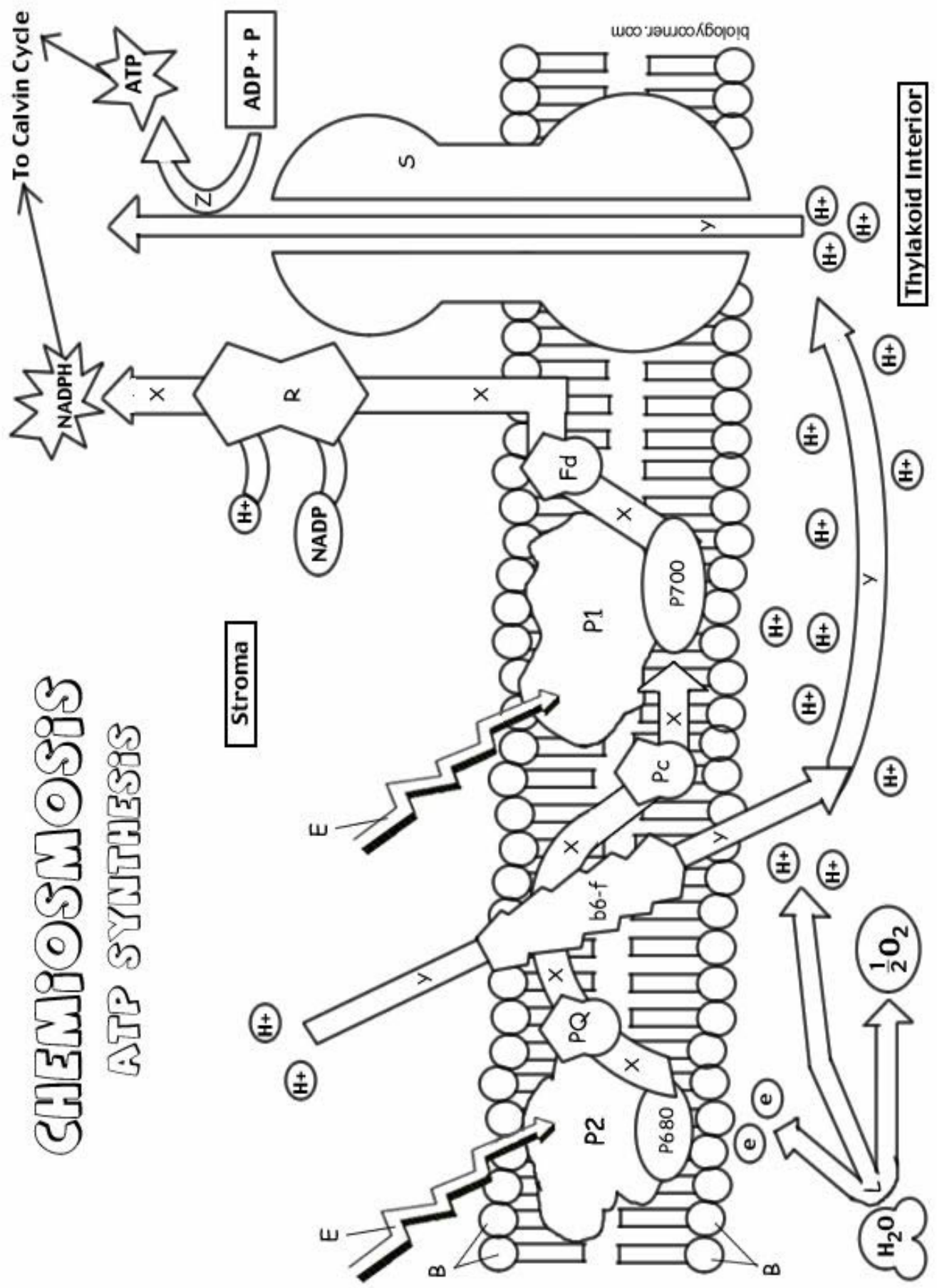


# CHEMIOSMOSIS

## ATP SYNTHESIS



## Photosystem Colouring Legend

COLORS		
Phospholipids - light blue	Proton path (Y)- yellow	ATP Synthase - pink
Light energy - orange	Oxygen - red	Photophosphorylation (Z) - orange
Photosystem II - dark green	Photolysis - pink	ATP - orange
P680 - dark green	Electrons - grey	Plastocyanin - brown
Photosystem I - light green	Electron path (X) - grey	Ferredoxin - turquoise
P700 - light green	Plastoquinone - purple	NADP Reductase - dark purple
Protons - yellow	b6-f complex - dark blue	NADPH - light purple

### Questions:

1. Explain(or list) in words the path that electrons take through the thylakoid.

Be sure to name all the terms in the legend in your explanation.

2. Explain how the concentration gradient affects the process of ATP synthesis.

3. Summarize what goes into the photosystems and what comes out of the systems.  
Where will these products go?