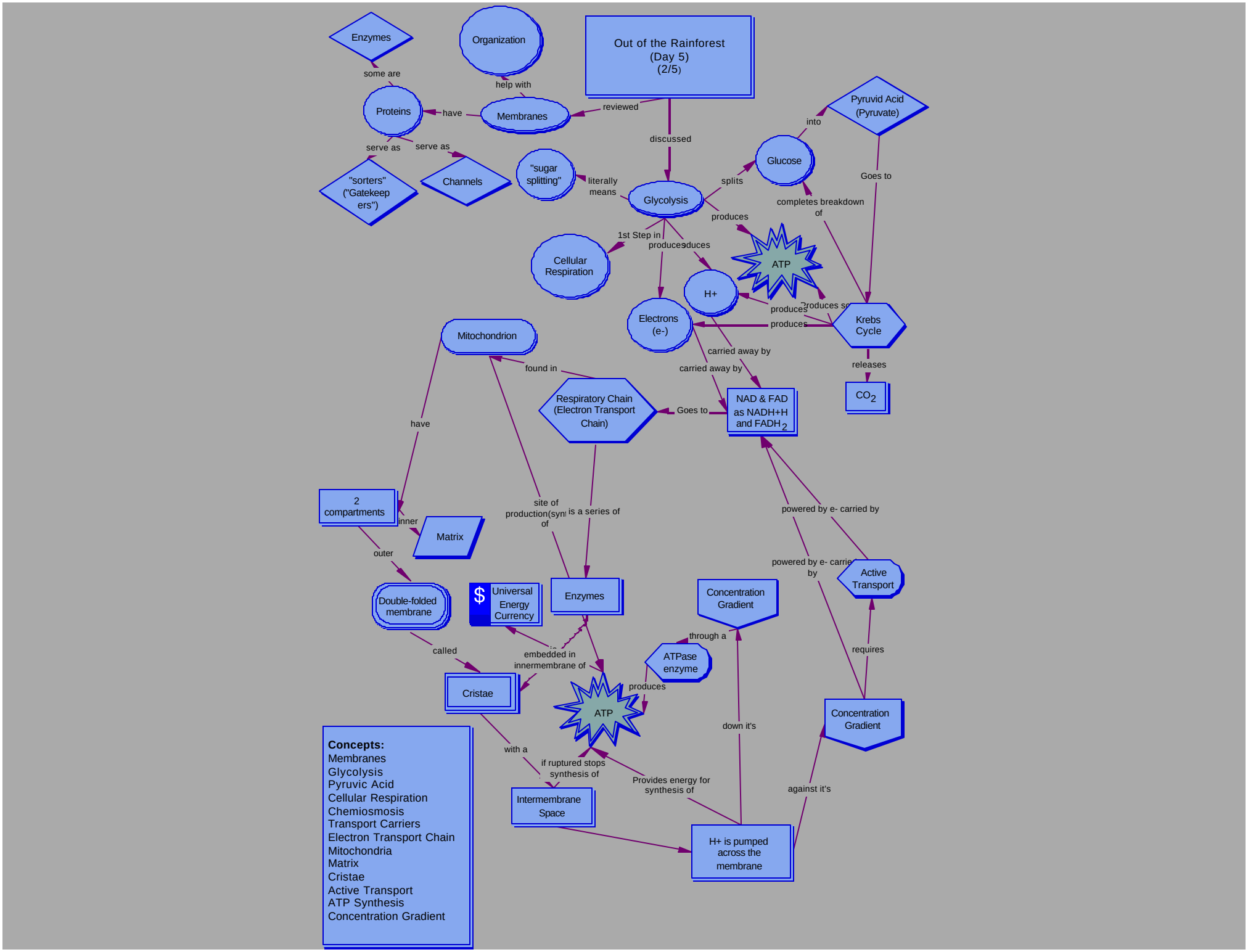
Out of the Rainforest
(Day 5)
(2/5)
Enzymes
some are
Organization
help with
Proteins
have
Membranes
reviewed
discussed
serve as
serve as
"sorters" ("Gatekeepers")
Channels
"sugar splitting"
literally means
Glycolysis
splits
Glucose
into
Pyruvid Acid (Pyruvate)
Goes to
completes breakdown of
produces
1st Step in
Cellular Respiration
produces
produces
ATP
H+
produces
produces
Electrons (e-)
produces
Krebs Cycle
carried away by
carried away by
releases
CO_2
Mitochondrion
found in
Respiratory Chain (Electron Transport Chain)
Goes to
NAD & FAD as NADH+H and $FADH_2$
have
2 compartments
inner
Matrix
outer
site of production(syn of
is a series of
powered by e- carried by
powered by e- carried by
Active Transport
Double-folded membrane
Universal Energy Currency
Enzymes
Concentration Gradient
through a
ATPase enzyme
called
embedded in innermembrane of
Cristae
ATP
produces
requires
Concentration Gradient
down it's
with a
if ruptured stops synthesis of
Provides energy for synthesis of
against it's
Intermembrane Space
H+ is pumped across the membrane
Concepts:
Membranes
Glycolysis
Pyruvic Acid
Cellular Respiration
Chemiosmosis
Transport Carriers
Electron Transport Chain
Mitochondria
Matrix
Cristae
Active Transport
ATP Synthesis
Concentration Gradient