

Chapter 8-1: Energy & Life

Essential Questions:

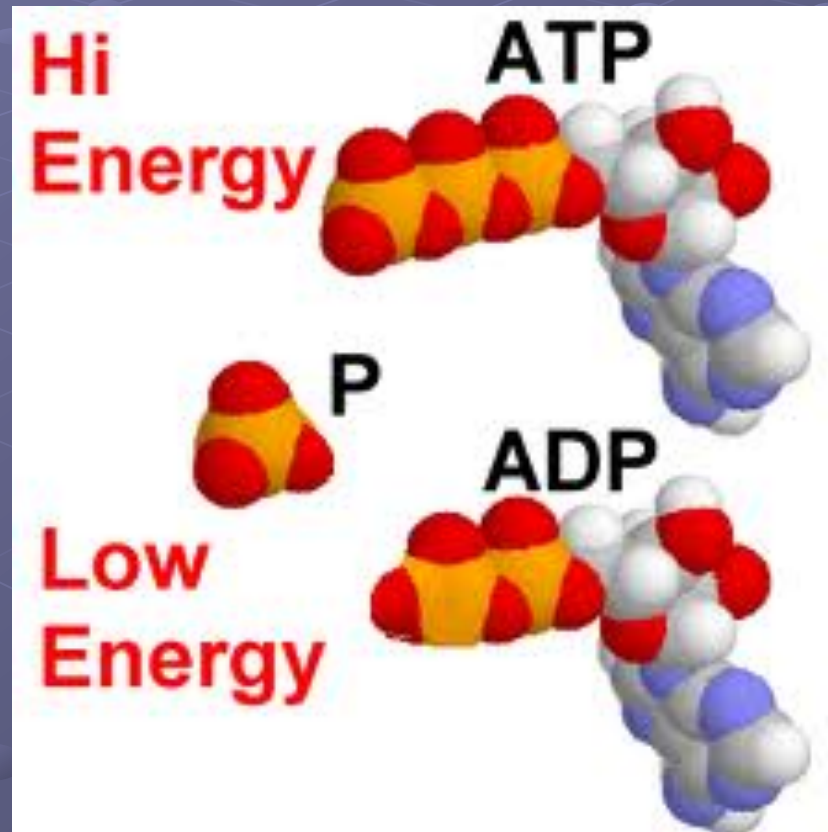
- Where do plants get energy to produce food?
- What is the role of ATP in cell activities?

- Autotrophs vs. heterotroph
 - “self-feeders” vs. “other feeders”



● Chemical energy & ATP

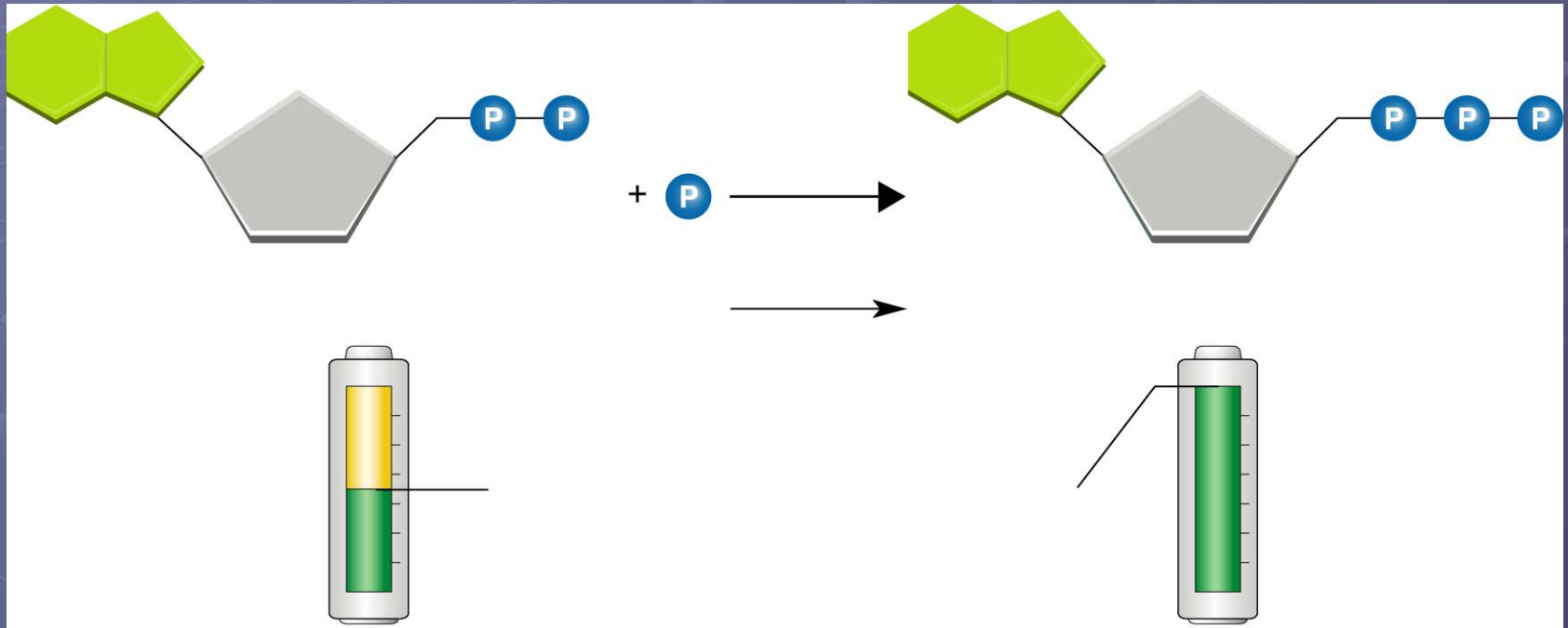
■ ATP & ADP



■ Releasing energy from ATP

Adenosine diphosphate (ADP) + Phosphate

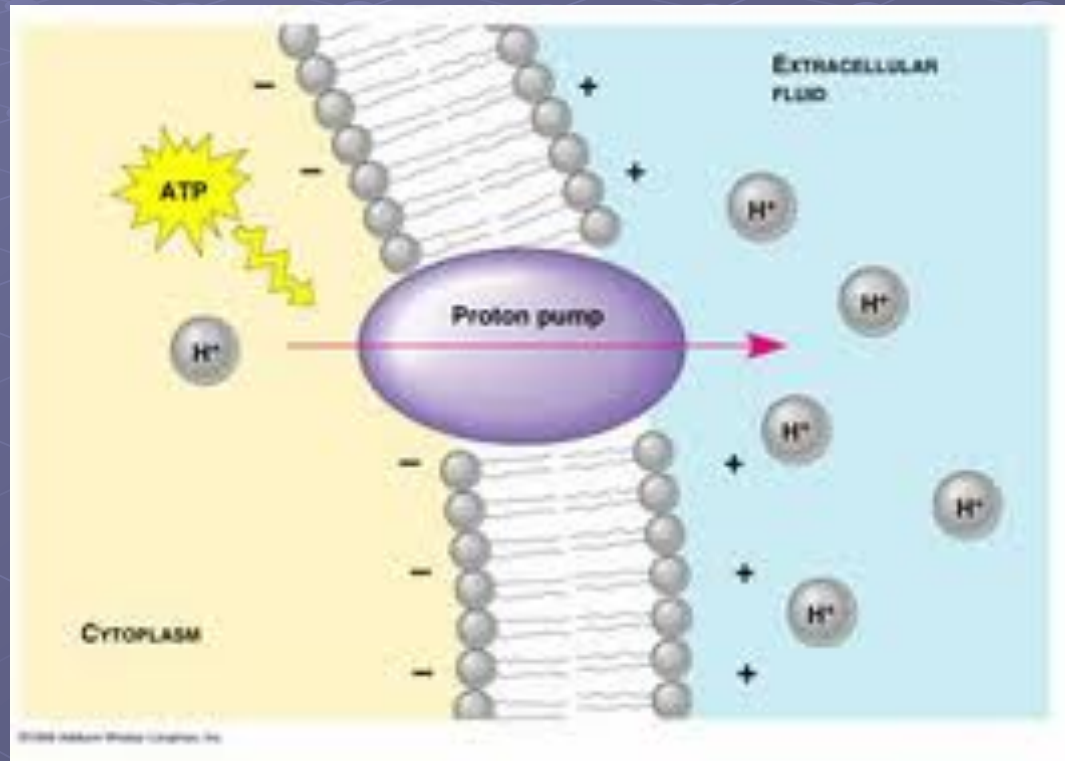
Adenosine triphosphate (ATP)



Partially
charged
battery

Fully
charged
battery

- Using biochemical energy
 - ATP used for active transport & to move things inside cell



● ATP & glucose

- ATP can't store large amounts of energy for long-term use
- Glucose stores 90 times as much energy as ATP
- $C_6H_{12}O_6$

