

Name: _____ Period: _____

3.5 Introduction to Energy in the Cell

Energy Comes in Many Forms:

Energy cannot be created or destroyed, it can only be _____ to different forms!

Energy in Cells:

All organisms need _____ to meet requirements for life!

Two ways to acquire "food" for energy:

- 1.
- 2.

Energy enters cells in the form of _____ or _____
(This energy is not usable yet!)

Energy is then transferred to make the _____ of the molecule **ATP**.

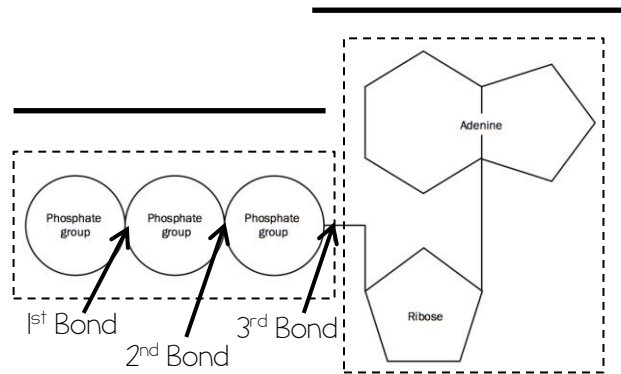
ATP: Adenosine Triphosphate

A = _____

T = _____

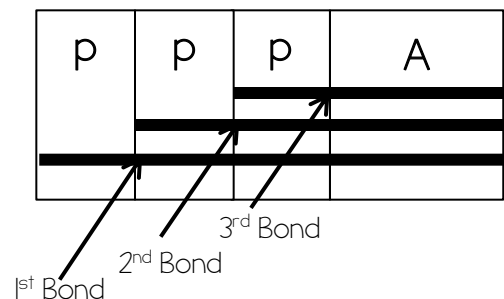
P = _____

ATP is _____



Does each of the covalent bonds of ATP have the same amount of energy?

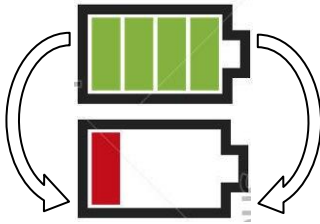
	Distance Rubber Band Travels (cm)			
	Trial 1	Trial 2	Trial 3	Average
1 st Bond				
2 nd Bond				
3 rd Bond				



Given your data, which bond has the highest amount of potential energy? What does this mean?

How Does ATP Work in the Cell?

ATP is Like a Rechargeable Battery



ATP is also like...

ATP - ADP Cycling in Cells

