

#Jenny



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Cool! I'am really happy

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My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

Pre-AP Biology Notes: Light Energy & Photosynthesis

I. Energy for life processes

a. Definition: The ability to cause matter to move or to change, ability to do work
Examples:

b. Types of energy

i. Potential:
1. _____ energy
2. example: _____

ii. Kinetic (mechanical)
1. energy of _____
2. examples: _____

iii. examples of energy
1. atomic, wind, solar, heat, chemical, electrical, mechanical (motion)

c. Biochemical pathways

i. Series of reactions in which the _____ of one reaction is the _____ of the next.

ii. Examples: Photosynthesis & cellular respiration

1. only _____ are capable of photosynthesis
2. both _____ & _____ perform cellular respiration to release energy to do cellular work.

Photosynthesis

$$6\text{CO}_2 + 6\text{H}_2\text{O} \xrightarrow{\text{light energy}} \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$$

Respiration

$$\text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2 \rightarrow \text{energy} + 6\text{CO}_2 + 6\text{H}_2\text{O}$$

d. Thermodynamics

i. Definition: the study of energy

ii. 1st law of thermodynamics (law of conservation of energy): energy cannot be _____ or _____, only converted from one form to another

1. example: stored chemical energy in _____ \rightarrow stored chemical energy in _____ \rightarrow mechanical energy to _____ \rightarrow heat energy to maintain your body _____

1

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