

AP Biology 013 – Photosynthesis and Respiration

Video Review Sheet

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1. What is the goal of life?
 - The goal of life is to make ATP so we can use energy.
2. Name and describe and give an example of the two life strategies.
 - The two life strategies are the autotrophs and heterotrophs.
Autotrophs- make their own food. Ex. Plant
Heterotroph- can't make their own. Ex. Humans
3. What are the two types of autotrophs?
 - Two types of autotrophs is Chemosynthesis and Photosynthesis
4. What are the two types of heterotrophs?
 - Two types of heterotrophs is Cellular Respiration and Fermentation
5. Who are the autotrophs making the food for?
 - Autotrophs making food from themselves.
6. Where does chemosynthesis occur?
 - Chemosynthesis occurs when there's not a lot of light on our planet.
7. Tubeworms contain what type of chemosynthetic organism?
 - Black smokers
8. Yeast can do alcoholic fermentation. Lactic acid fermentation, that we do, also does not require: **oxygen**.
9. Write the equation for photosynthesis (reverse is cellular respiration):
 - $6 \text{ CO}_2 + \text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6 \text{ O}_2$
10. What are you storing in the glucose molecule?
 - Taking the carbon in carbon dioxide and we're actually turning that into carbon in glucose releasing oxygen as a waste product.
11. What is the delta G?
 - Positive free energies
12. Where does the light reaction take place specifically?
 - Light reaction takes place in the thylakoid membrane

47 Ap Bio Guide Answers

Mark Anestis, Kelcey Burris



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