

USE THE DIAGRAM and NOTES to ANSWER THESE QUESTIONS

1. Which organisms will carry out BOTH photosynthesis & cellular respiration?

Plants, Animals or Both

2. What structure requires the products from photosynthesis? mitochondria

3. Where is light energy absorbed? chloroplast

4. Where is the most ATP formed? mitochondria

5. What else does the mitochondria produce that the chloroplast needs? CO_2, H_2O

6. What else does the chloroplast produce that the mitochondria needs? $C_6H_{12}O_6$ (glucose) + O_2

7. Which of the following would require ATP: active transport, diffusion, homeostasis, reproduction, response to stimuli.

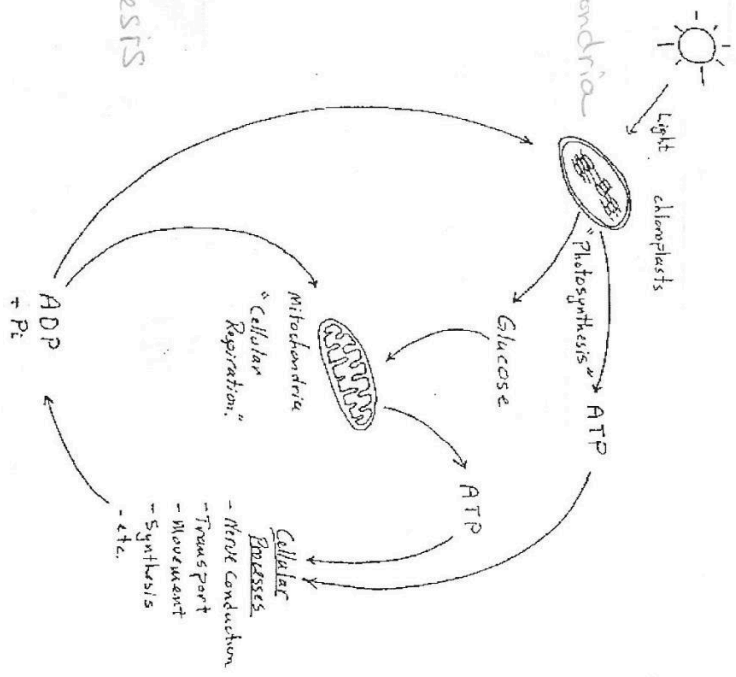
8. Which structure is only in autotrophs? chloroplast

9. Which processes release energy? both photosynthesis & respiration

10. What is ATP broken down into after the energy is used for cellular processes? $ADP + P_i$

11. What are the reactants of cellular respiration?

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