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| **Photosynthesis Study Guide** | **http://www.biologyjunction.com/images/j0076153.gif** |

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| http://www.biologyjunction.com/images/BD14532_1.GIF | **Give several examples of life processes that require energy.** |
| http://www.biologyjunction.com/images/BD14532_1.GIF | **What is the major light absorbing pigment in plants?** |
| http://www.biologyjunction.com/images/BD14532_1.GIF | **What two things are formed by plants when carbon dioxide & water are combined using sunlight as the energy?** |
| http://www.biologyjunction.com/images/BD14532_1.GIF | **Clusters of light absorbing pigments located in the thylakoid membranes of a chloroplast are called what?** |
| http://www.biologyjunction.com/images/BD14532_1.GIF | **Do all organisms require energy?** |
| http://www.biologyjunction.com/images/BD14532_1.GIF | **Are all wavelengths of sunlight absorbed by a plant to make sugar? Explain.** |
| http://www.biologyjunction.com/images/BD14532_1.GIF | **Only \_\_\_\_\_\_\_\_\_\_\_, not heterotrophs, carry on photosynthesis.** |
| http://www.biologyjunction.com/images/BD14532_1.GIF | **When the products of one chemical reaction are used as the reactants for the next reaction, the series of reactions is known as a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ pathway.** |
| http://www.biologyjunction.com/images/BD14532_1.GIF | **Plants cells use light to make what two energy carrying molecules?** |
| http://www.biologyjunction.com/images/BD14532_1.GIF | **What sugar is the final product of photosynthesis?** |
| http://www.biologyjunction.com/images/BD14532_1.GIF | **Electrons are transported from one molecule to another by \_\_\_\_\_\_\_\_\_\_ atoms.** |
| http://www.biologyjunction.com/images/BD14532_1.GIF | **Can the dark reactions of photosynthesis occur during the daytime or only in the dark?** |
| http://www.biologyjunction.com/images/BD14532_1.GIF | **C4 and CAM plants use less water to make sugar than \_\_\_\_\_\_\_\_\_\_ plants.** |
| http://www.biologyjunction.com/images/BD14532_1.GIF | **How do heterotrophs obtain their energy?** |
| http://www.biologyjunction.com/images/BD14532_1.GIF | **What is the original source of energy for all living things on earth?** |
| http://www.biologyjunction.com/images/BD14532_1.GIF | **Stacks of thylakoids called grana are suspended in the fluid inside chloroplasts called \_\_\_\_\_\_\_\_\_\_.** |
| http://www.biologyjunction.com/images/BD14532_1.GIF | **Light travels to plants as tiny packets of radiant energy called \_\_\_\_\_\_\_\_\_.** |
| http://www.biologyjunction.com/images/BD14532_1.GIF | **Chlorophyll of plants looks green because green light is \_\_\_\_\_\_\_\_\_\_\_\_\_\_ to your eye.** |
| http://www.biologyjunction.com/images/BD14532_1.GIF | **What happens to the electrons of chlorophyll when they are stuck by sunlight?** |
| http://www.biologyjunction.com/images/BD14532_1.GIF | **What gas is put back into our atmosphere by photosynthesis?** |
| http://www.biologyjunction.com/images/BD14532_1.GIF | **Complex carbohydrates are made during what cycle during photosynthesis?** |
| http://www.biologyjunction.com/images/BD14532_1.GIF | **What pigments give flower petals their colors?** |
| http://www.biologyjunction.com/images/BD14532_1.GIF | **Electrons raised to a higher energy level when struck by light enter what chain?** |
| http://www.biologyjunction.com/images/BD14532_1.GIF | **What important energy carrier molecule in photosynthesis picks up hydrogen atoms?** |
| http://www.biologyjunction.com/images/BD14532_1.GIF | **Oxygen made during photosynthesis comes from the splitting of what molecule?** |