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Carbon and Oxygen Cycle

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| **Across**  **5.** This is given out to air when food is used by animals during respiration to produce energy to live and grow  **9.** Photosynthesis needs this.  **11.** What takes place in the mitochondria during Gycolysis?  **12.** This converts carbon dioxide and other compounds into glucose. These reactions occur in the stroma, in the chloroplast, and on the outside of the thylakoid membranes.  **13.** This is a membrane in chloroplasts and the site of the light depended reactions of photosynthesis.  **14.** Cellular Respiration takes place in this. | **Down**  **1.** This is used during respiration and given out during Photosynthesis. This also enters the Electron Transport Chain to make ATP.  **2.** This is where the Carbon cycle and Calvin cycle of photosynthesis take place.  **3.** Sunlight and water enters this to produce ATP, NADH, and Oxygen.  **4.** This goes with sunlight and enters the light dependent reactions.  **6.** What is broken down into Pyruvic Acid and used during the Kreb's Cycle?  **7.** During photosynthesis, carbon dioxide is taken in from the atmosphere through this and oxygen is released as a waste product.  **8.** Photosynthesis takes place in this.  **10.** These are stacks of thylakoids in the stroma of a chlorplast that contain important light-absorbing pigments, such as chlorophyll. |