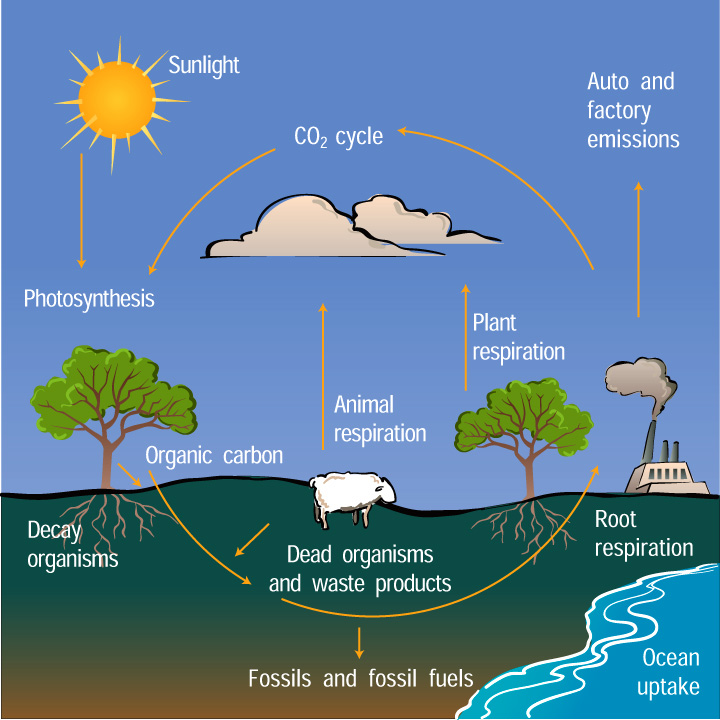
**Carbon Cycle**

**Objective**: *Describe how abiotic factors affect ecological relationships and relate how organisms function in each cycle.*

|  |  |
| --- | --- |
| Plants    All Organisms    Coal, oil, gas | **Photosynthesis\***   * process that turns sunlight energy into glucose sugar * reactants (raw materials): sunlight energy, carbon dioxide, water * products: glucose sugar, oxygen   https://lh3.googleusercontent.com/tFcAUnjHQo4tvzj2Q9CvmjuUKu7964PzB8yXzcMtYEAkjckocVS09Gk6MfcfpbHR27STPtfMxzeZhN-3k2PvzqSDRrGxikNdIpY02_p0HG9Bfadtqpj1vXuKwQ  **Cellular Respiration\*\***   * process that turns glucose sugar into energy * reactants: glucose, oxygen * products: energy, carbon dioxide, water https://lh3.googleusercontent.com/z0WXZm1cvmY8zPL14LRcjLsgTslu06j4QdFBXmuSNpyP0mAUPh89q9un875IDKats4ZQCLS5BbtalrBcIJiV6Znm7XijwsMf4Kde6KUMAJF1BQ2EZSi5D8-7GA   Photosynthesis and cellular respiration are opposites!    **Fossil fuels**   * made from dead organisms over thousands/millions years * when burned, give off carbon dioxidehttps://lh5.googleusercontent.com/o2xkWg5NF1Goa1vKhjjKNjyYfmjHuqOsy58-z96WVHxl9YeHoxUeJM5dXKLqxgT5qh7sRvXU4SZuT24qdLuBR_tzBhv6N8mgEddm34WjcTsrGIKJraIxspDe6A |



**Summary**: *Using complete sentences, describe how plants & animals function in the carbon cycle.*

\* 6 CO2    + 6 H2O -------------> C6H12O6  +  6O2   } Plants

 carbon       water    sun’s        glucose       oxygen

dioxide energy (sugar)

Photosynthesis

\*\* C6H12O6 + 6O2 --------->  6 CO2 + 6 H2O + energy }Plants & Animals

glucose    oxygen                 carbon water

dioxide

Cell Respiration