**Carbon Cycle**

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

|  |  |
| --- | --- |
| PlantsAll OrganismsCoal, 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