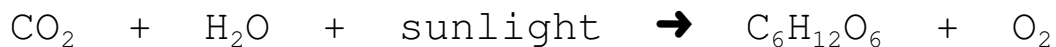


The Carbon Cycle

- carbon atoms on our planet have been here for 4.5 billion years
- carbon is recycled into many different forms
- a "carbon repository" is any location or form that stores carbon
 - carbon dioxide in the air
 - carbon found in plants
 - carbon found in animals
 - carbon found in soil
 - carbon found in fossil fuels!!!
 - carbon found in rocks
 - carbon dioxide found dissolved in sea water
- many processes convert carbon to different forms (repositories)

Photosynthesis: occurs in plants (and some bacteria)

carbon + water + sunlight → glucose + oxygen
dioxide



Cellular Respiration: occurs in all living cells

glucose + oxygen → carbon + water + useable
dioxide energy

