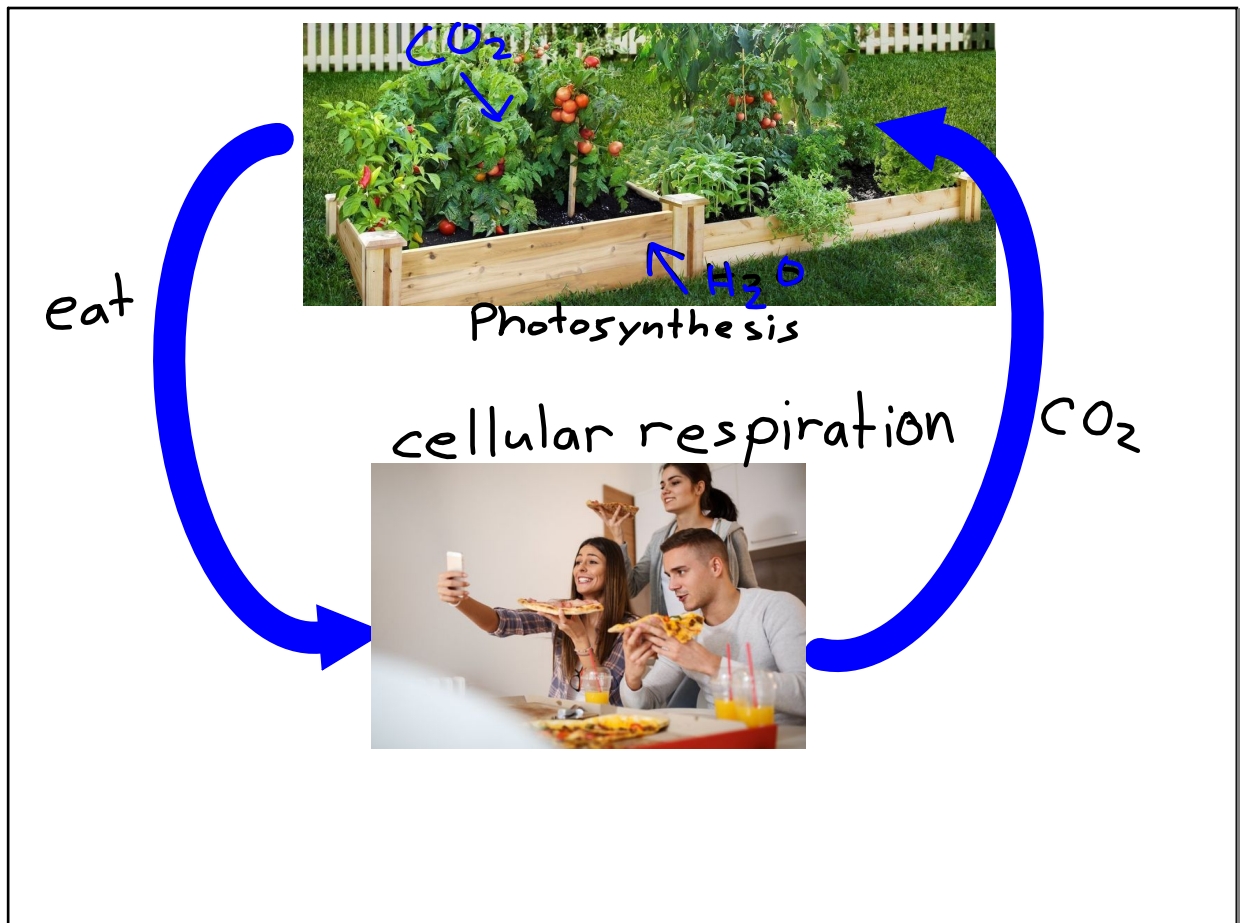


2.5 - The Carbon Cycle

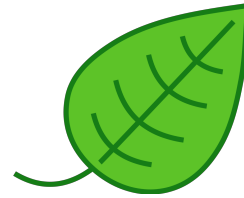
Carbon is found in BOTH organic and inorganic molecules and, like other types of matter, gets cycled continuously.

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Inorganic to organic:

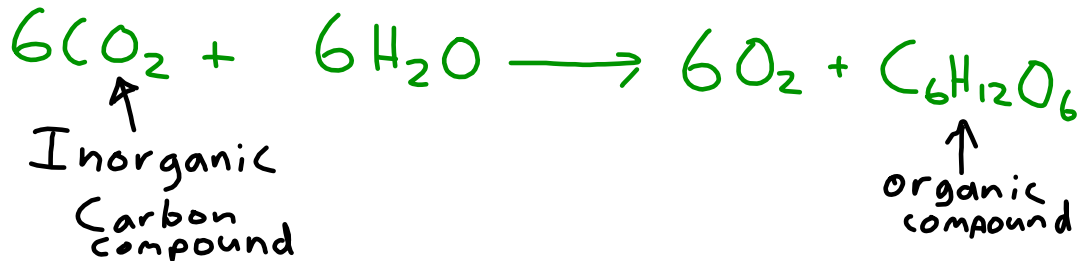


Photosynthesis

Carbon Dioxide + Water $\xrightarrow{\text{Sunlight}}$ Oxygen + Sugar

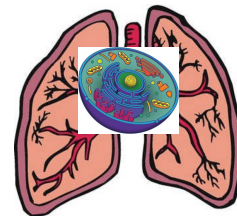
Reactants

Products



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Organic to inorganic:



Cellular Respiration:

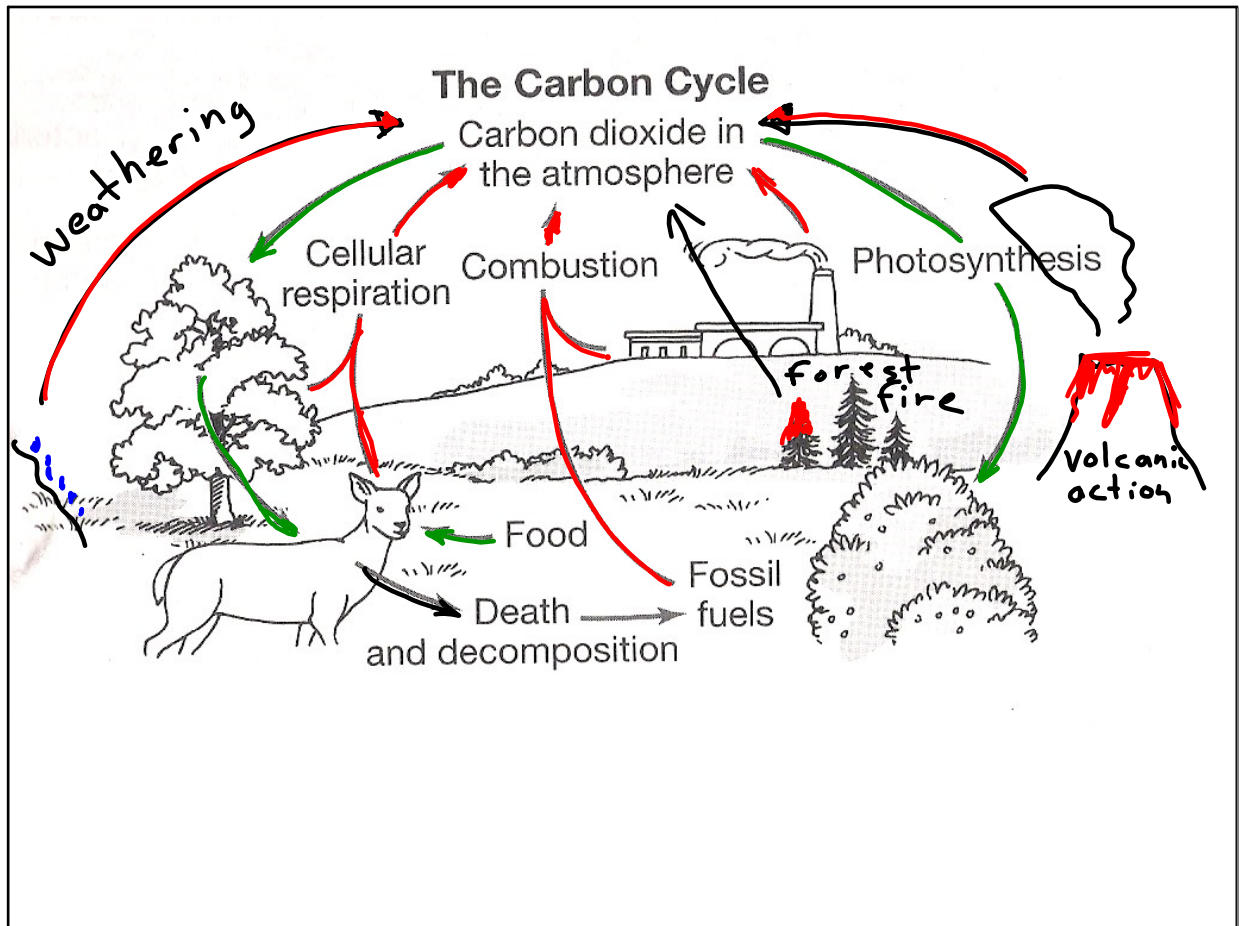
-The process of cells breaking down sugars to release the stored energy

-The reverse of photosynthesis

Glucose + Oxygen \longrightarrow Carbon Dioxide + Water



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Carbon Reservoirs

Reservoirs are locations where carbon can be stored for longer periods.

Inorganic carbon reservoirs:

atmosphere
soil
ocean
Earth's crust

Organic carbon reservoir:

bodies of living or once living organisms

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Human effects on carbon cycle

Burning fossil fuels and forests releases carbon into the atmosphere faster than it can be replaced.

Less vegetation means less photosynthesis and less carbon removed from the atmosphere

More atmospheric carbon means more of the sun's energy gets trapped and the earth heats up

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1. Use page 62 in textbook to add 3 more parts to the diagram in your notes. Include arrows and the names of those processes.
2. Page 65 #1,2,4

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