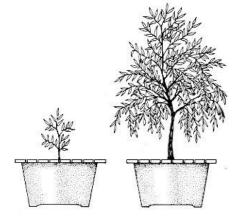
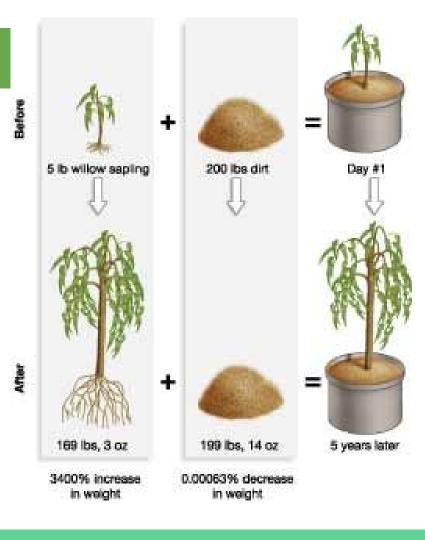
8.2 Photosynthesis: A History

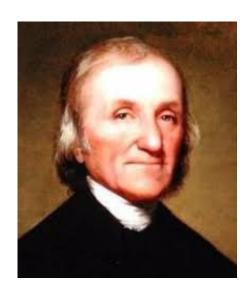




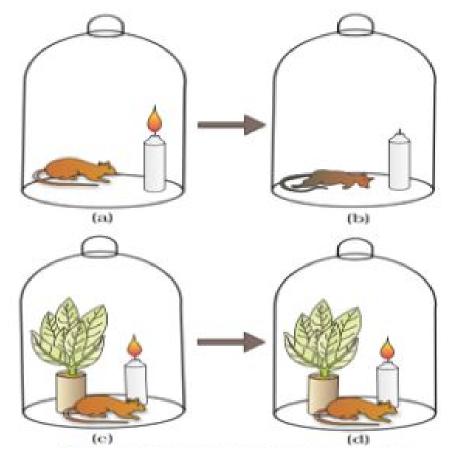
1643: Jan van HelmontConducted an experiment to identify what caused a tree to grow.

Where did the material come from?





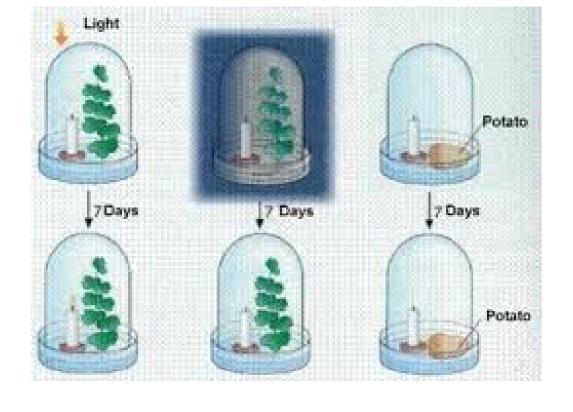
1771: Joseph Priestly discovered that plants give off oxygen to environments



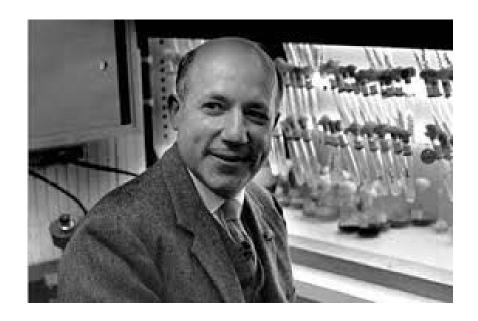
Plant = Oxygen



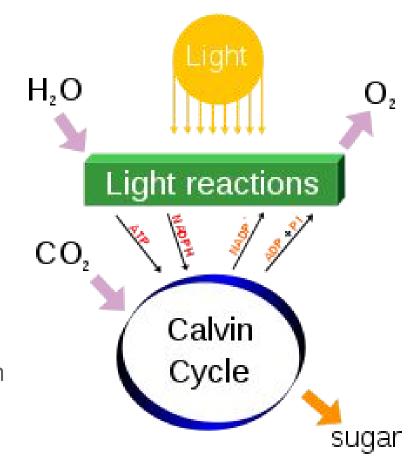
1779: Jan Igenhousz
Discovered that oxygen
was only produced by
plants when they were
exposed to sunlight.



Plant + Light = OXYGEN!

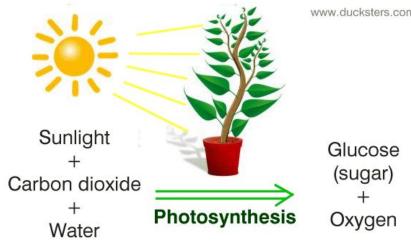


1948: Melvin Calvin was able to identify the chemical path carbon follows to form the sugar glucose. These reactions are now known as the Calvin cycle.



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Photosynthesis: a process which uses the energy of sunlight (photons) to convert water and carbon dioxide into high-energy sugars and oxygen (a waste product).



THE PHOTOSYNTHESIS EQUATION:

 $6CO_2 + 6H_2O \rightarrow C_6H_{12}O_6 + 6O_2$

Carbon dioxide \rightarrow (light) \rightarrow + water Sugars + oxygen