

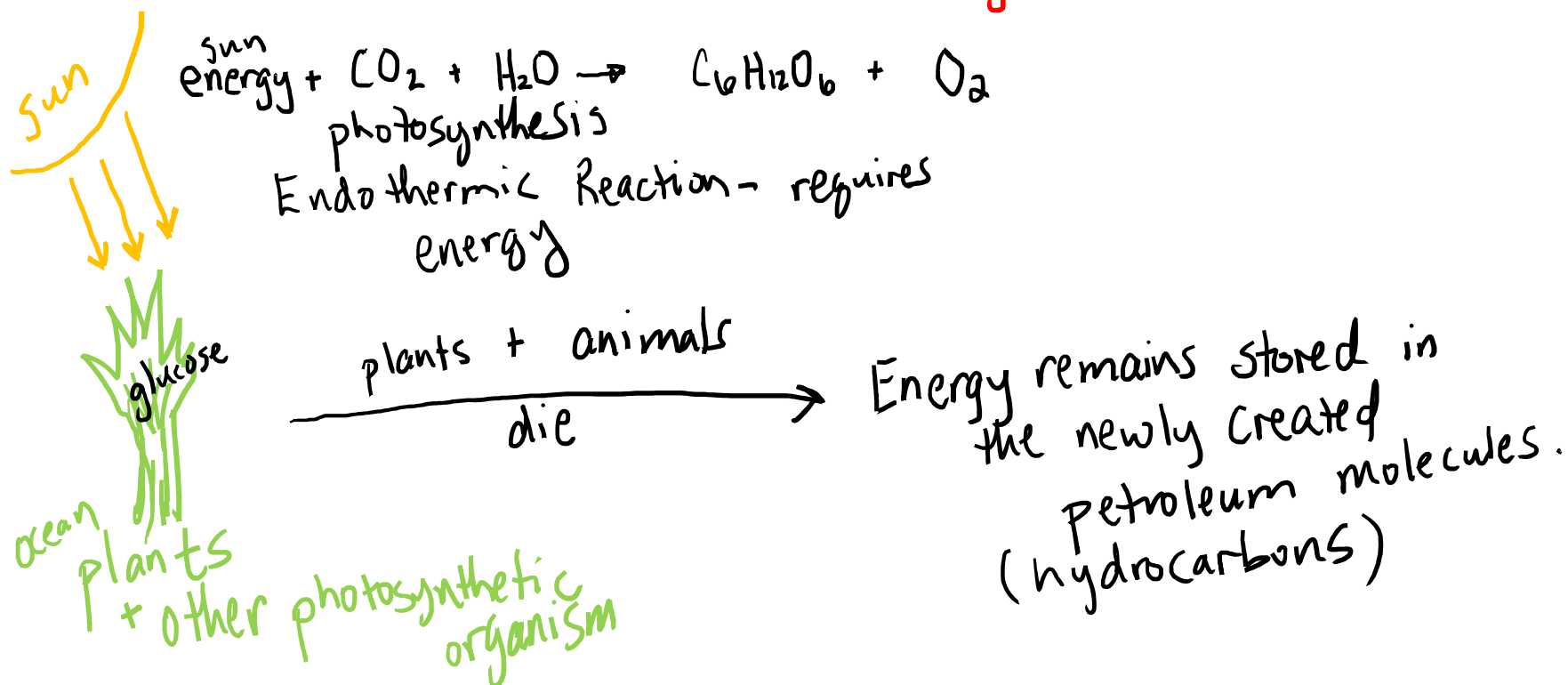
# Energy and Petroleum

- Petroleum is liquid sunshine
- All energy from fossil fuels originates from the sun!!!!
- Plants capture that energy during photosynthesis
- Plants die
- Animals eat plants...and die
- Plants use sunlight to make sugar (glucose)
- $\text{Sunlight} + 6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$
- Endothermic Reaction – requires energy

## Energy and Petroleum

\* Petroleum is liquid sunshine

→ all energy stored in the bonds originates from the sun.



# Fossil Fuel Energy

\* Combustion of fossil fuels releases the energy stored in hydrocarbon bonds.  
→ Exothermic Reaction - heat/energy released.

Simplest:

