

Carbon Cycle

→ Shows how living things get Carbon (C)
Carbon is the element that builds

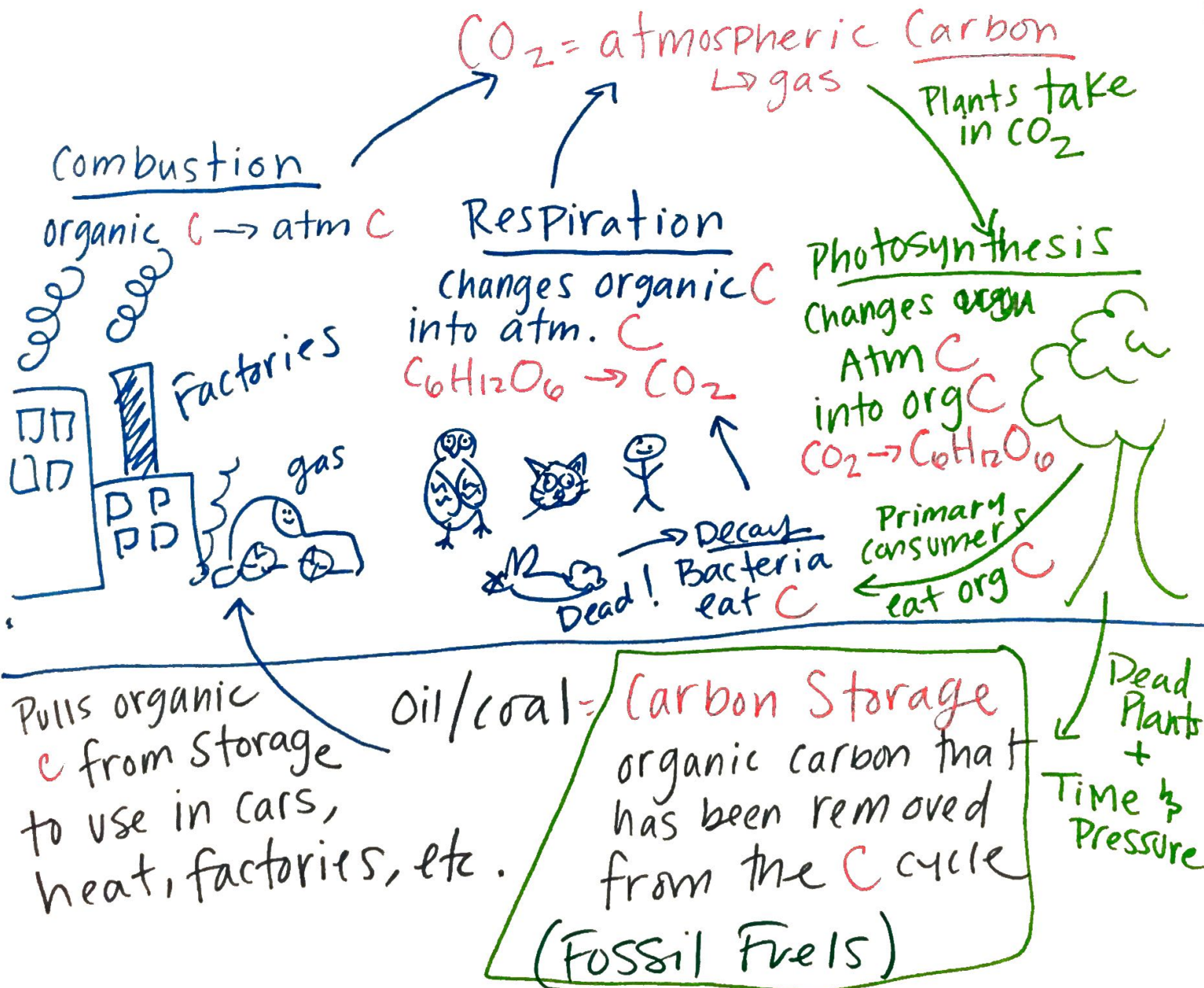
Makes up
.03% of
atmosphere

all organic matter

↳ Carbon based

H_2O = ~~Q~~ organic

$C_6H_{12}O_6$ = Yes! organic!
(glucose)



Water Cycle



How H₂O cycles around the biosphere



Condensation

H₂O vapor cools & becomes liquid

Precipitation

liquid & solid H₂O become too heavy & fall

Evaporation

liquid H₂O is heated & turns into gas (vapor)

Transpiration

release of H₂O from plant cells

Run off

H₂O flows down surfaces

accumulation

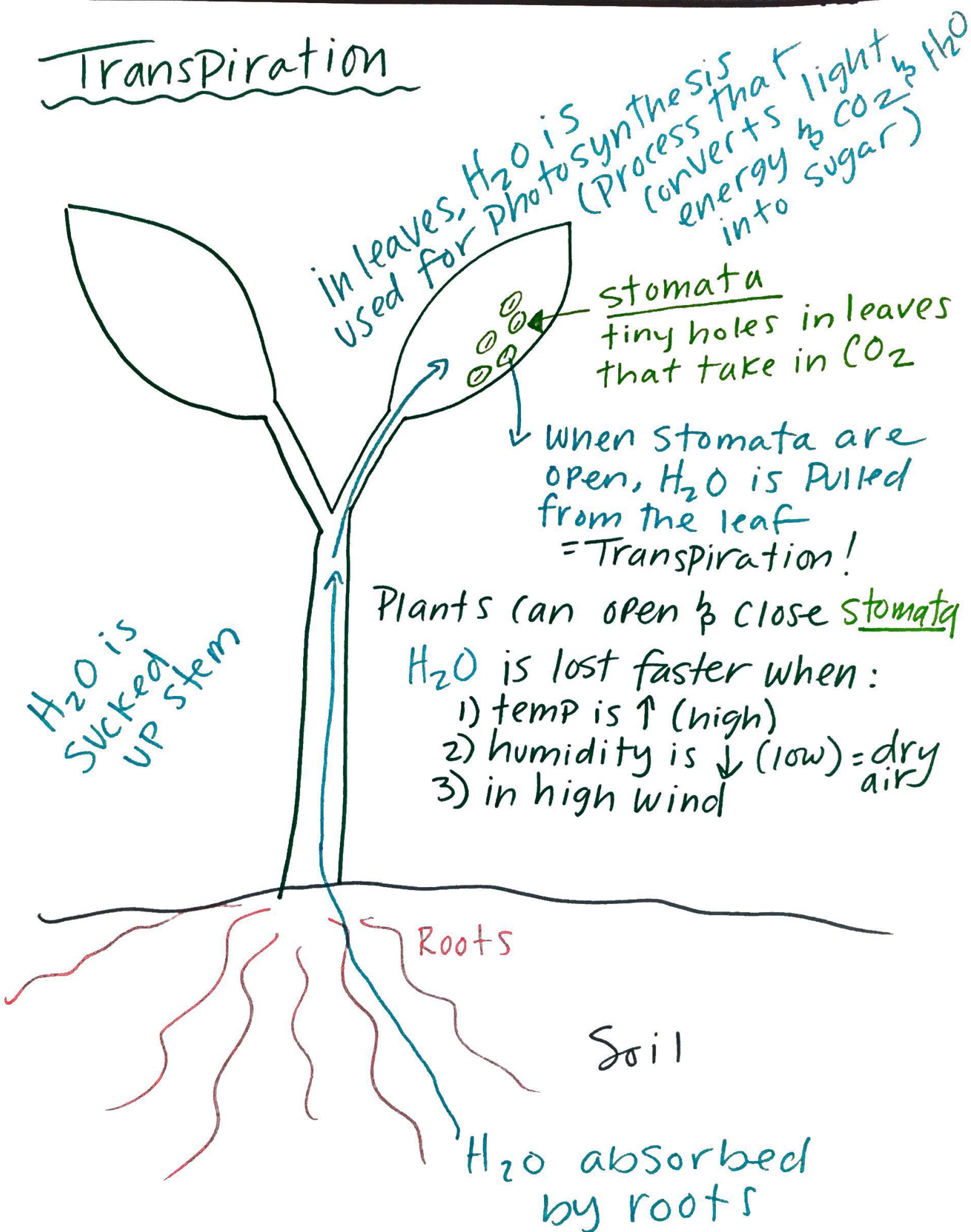
H₂O collects in streams, lakes, oceans, & aquifers (underground)

Bodies of H₂O

- lakes
- Rivers
- oceans



Transpiration



Nitrogen Cycle

~78% of the atmosphere

N_2 atmospheric N cannot be used by plants to make proteins

N_2 is released back into atm.

Legume plants
- Peas
- beans
- soybeans

Denitrifying
Convert +N into N_2

Dead

Primary consumers eat nitrogen

Plants absorb usable Nitrogen from Soil

Nitrogen fixing bacteria
Convert N_2 into usable N

Roots

