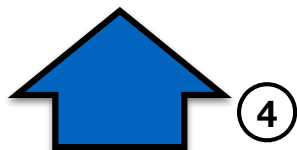


Dissipation
(heat of high entropy)



④

Biosphere

Metabolism

Photosynthesis

Calvin cycle

① ↑ $H^+ + e^-$

Photosystems

CO_2

H_2O

CO_2

H_2O

CH_2O

O_2

CH_2O

O_2

Carbon dioxide

Water

Organic carbon

Oxygen

Chemical equilibrium
(mass with high entropy)

Solar radiation
(low entropy)

Chemical disequilibrium
(mass with low entropy)

