

Thermodynamics

(a)
Free Time → Kinetics

Free Money → economic wise

Free Energy → means from where?

(b) Spontaneous → process proceeds
without needing energy

temperature winter -20°C if spontaneous @ 10°C
 summer $+35^{\circ}\text{C}$

wrong mix — can also be our "air"

(c) temperature

$^{\circ}\text{K}$ - Kelvin temperature	273.15°K	- yes
$^{\circ}\text{C}$ - Celsius temperature	0°C	- yes
$^{\circ}\text{F}$ - Fahrenheit	32°F	- no.

↓
to thermodynamics
calculations

Thermodynamics - names etc.

November 18, 2024 11:07 AM

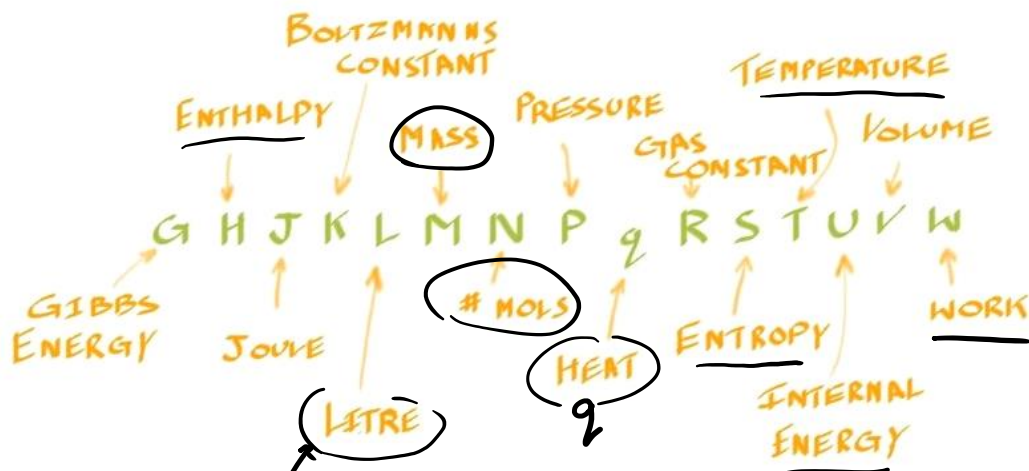


Figure 1. The thermodynamic alphabet.

measure - metric unit of volume - dm^3 - cubic decimeter

cm^3 - centimeters

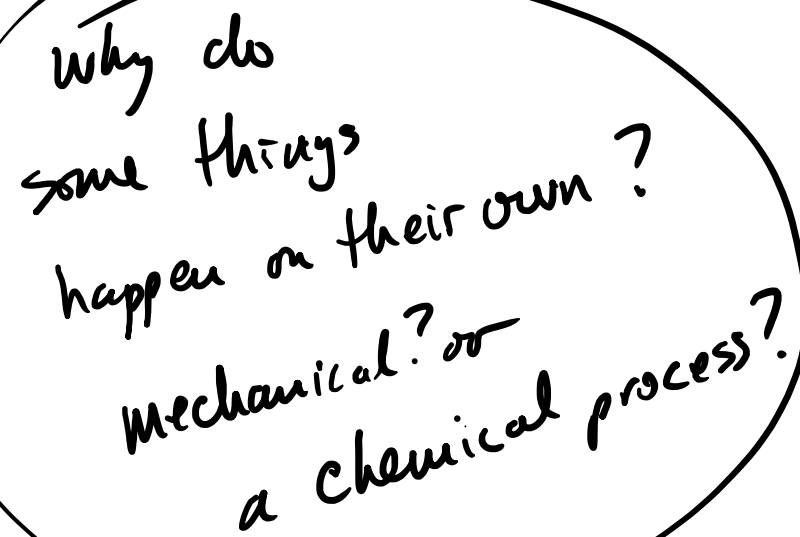
m^3 - metres



water $\sim \frac{1}{3}$

Thermodynamics

November 20, 2024 7:52 AM



Why do
some things
happen on their own?
Mechanical? or
a chemical process?