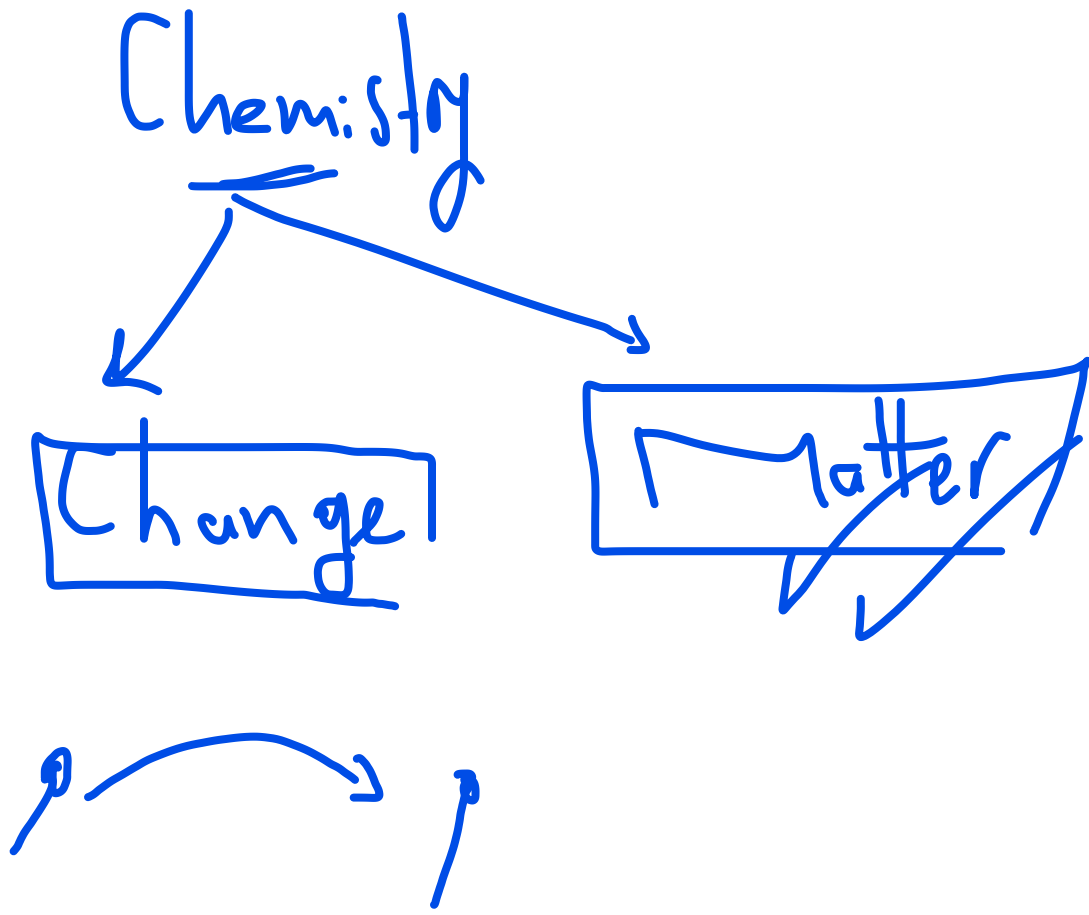
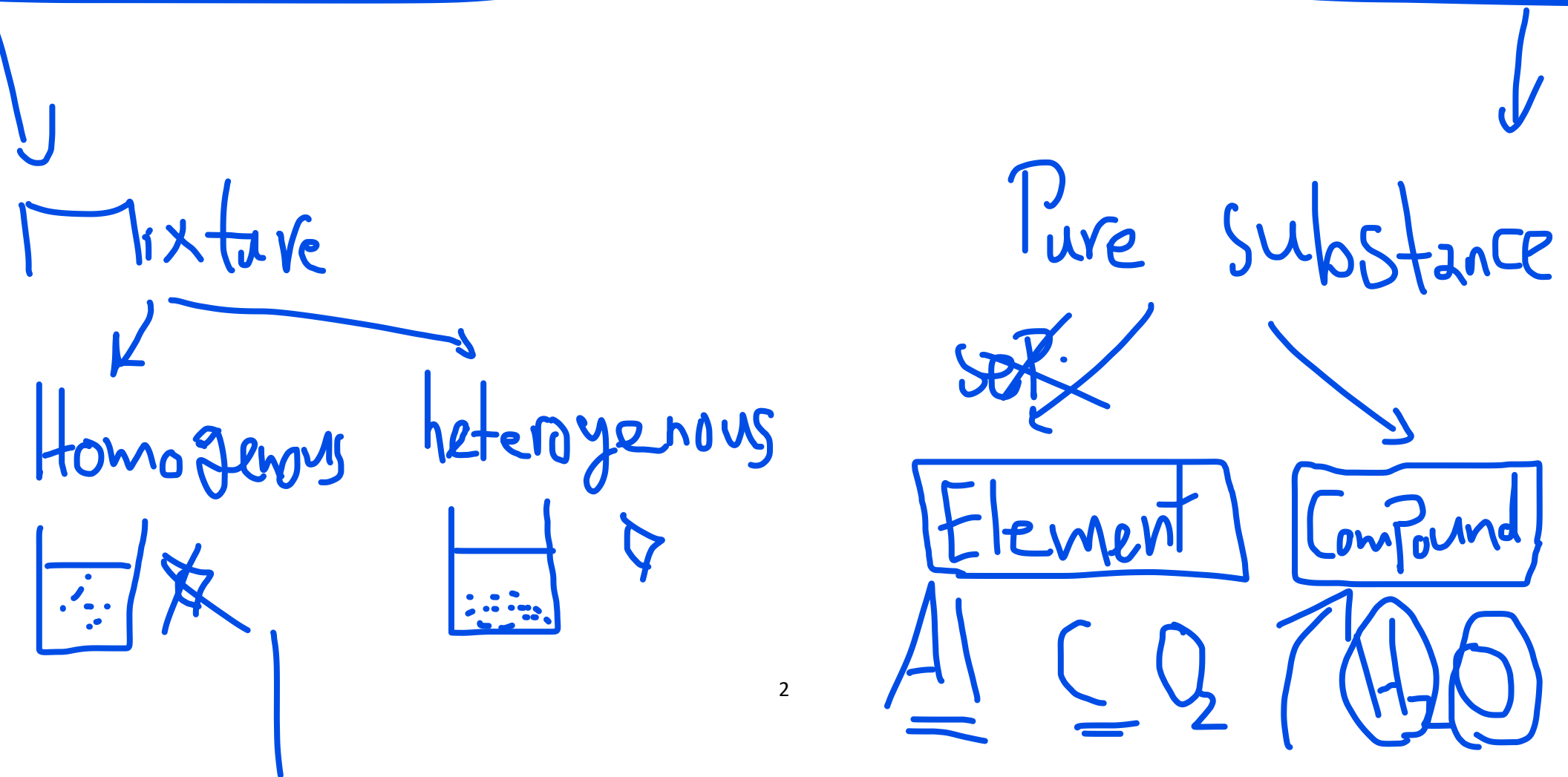




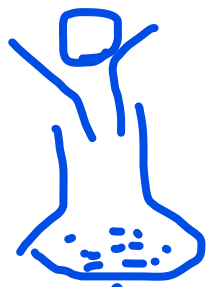
latter



فصل Separation

Boiling

Filtration

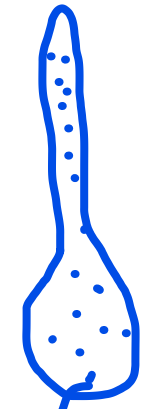


Gold
Copper

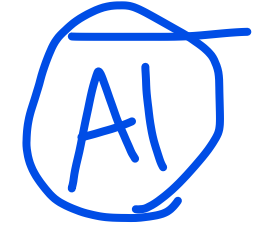


Physical

Al



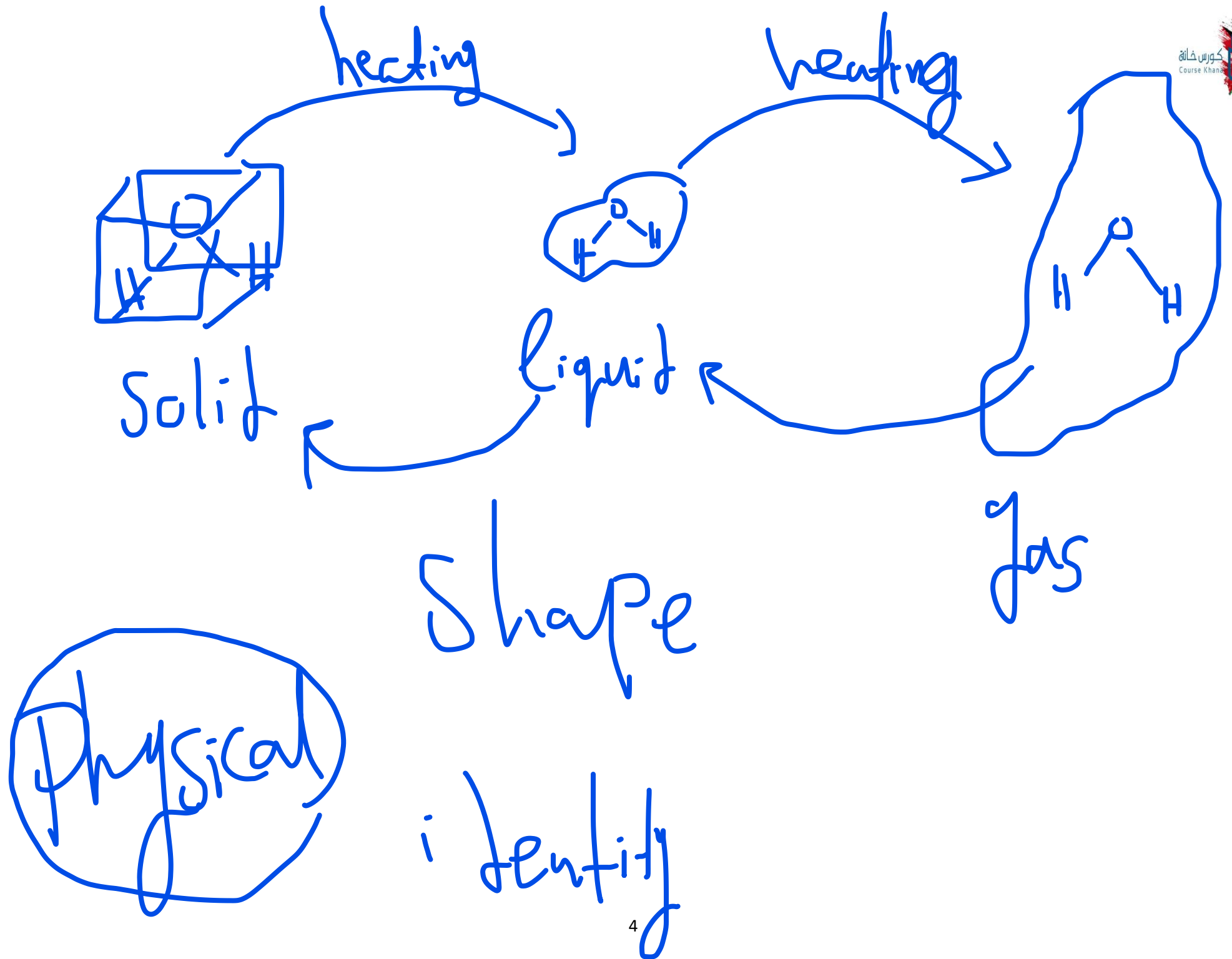
atoms

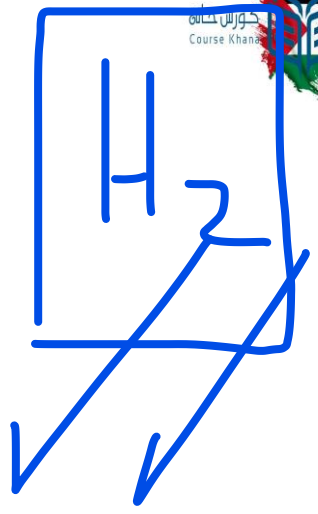
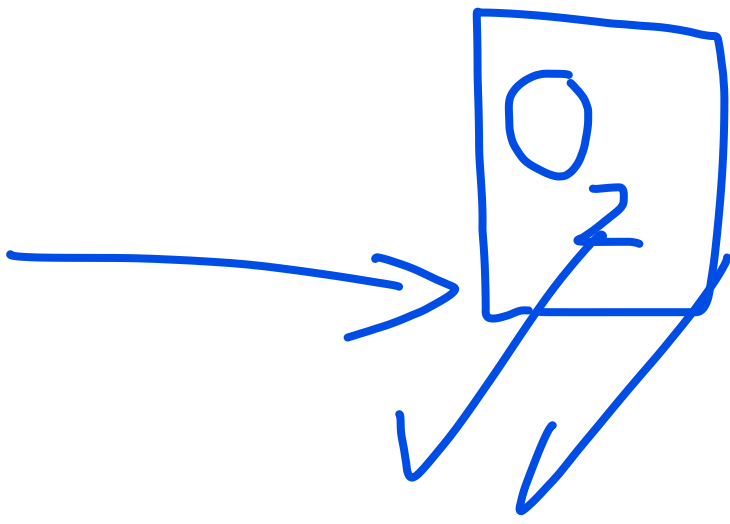
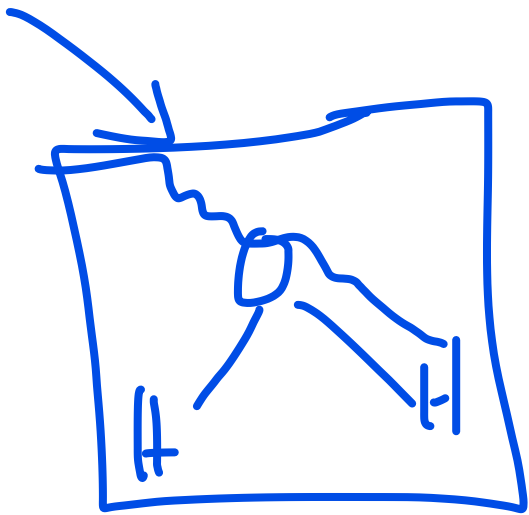


molecule



Chemical
methods

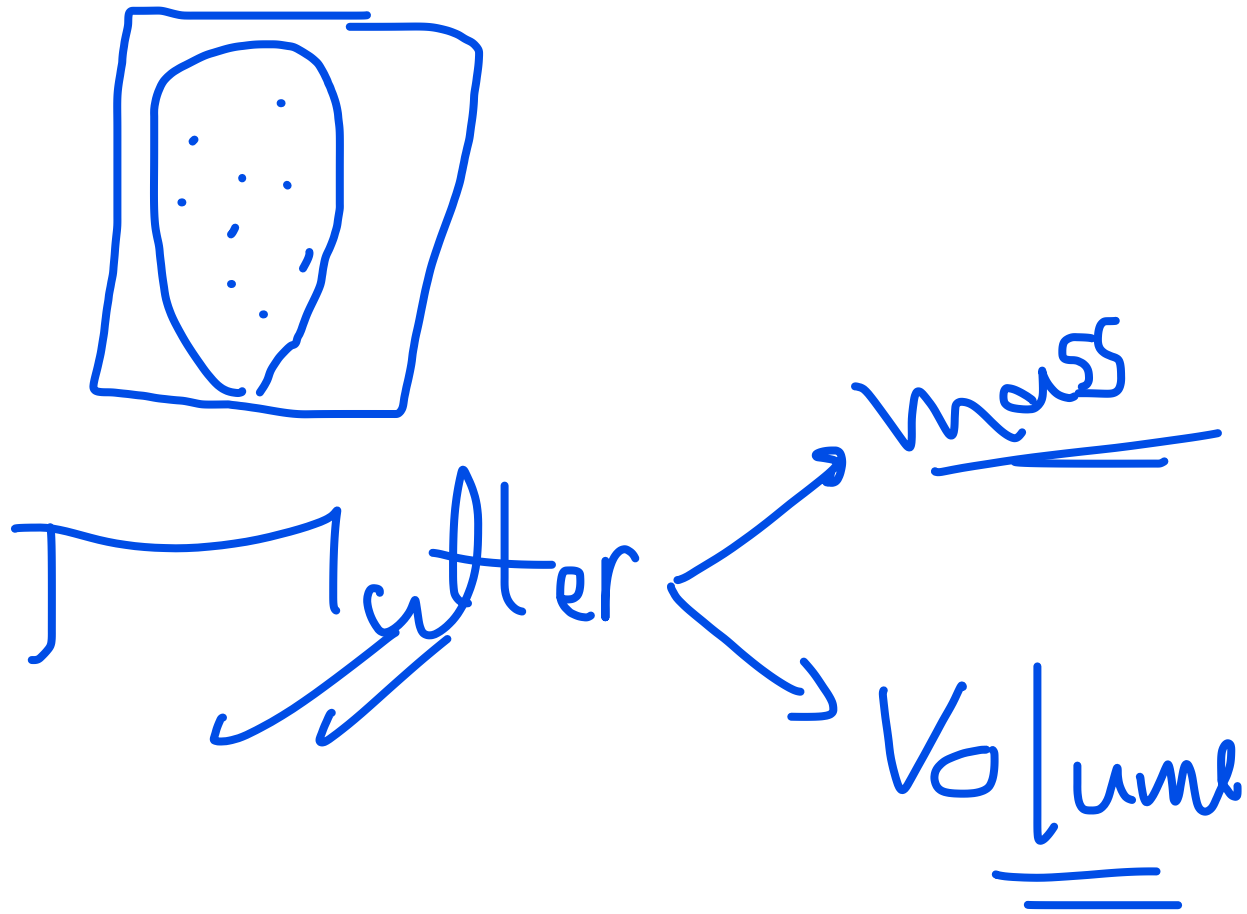




Chemical



1



Mass
↓
10Kg

Weight
↓

10X

10

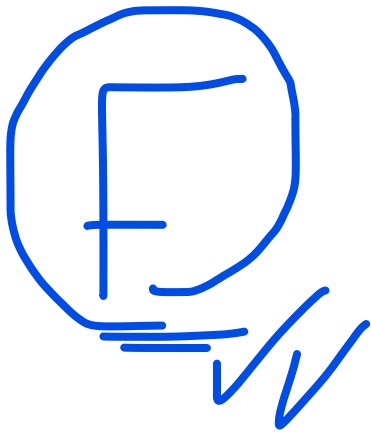
50

density = $\frac{\text{mass}}{\text{Volume}}$

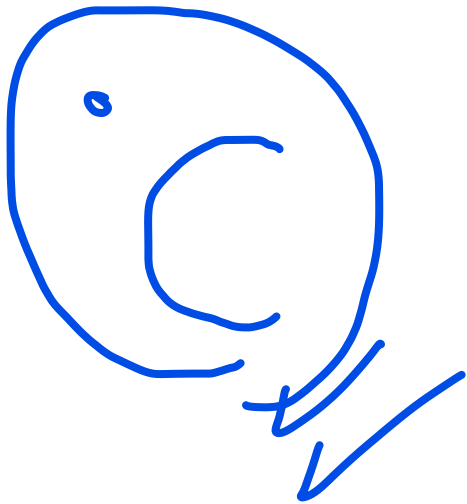
Key

l, ml, m³

mass over Volume



temp?



$$T_F^{\circ} = \frac{9}{5} T_C^{\circ} + 32$$

$$150 F = \frac{9}{5} T_C^{\circ} + 32$$

$$\frac{150 - 32}{\frac{9}{5}} = T_C$$

$$118 = \left(\frac{9}{5} \right) \times T^{\circ}C$$

$$118 \div \frac{9}{5} = T^{\circ}C$$

$$28^{\circ}C \rightarrow$$

$$T_f = \left(\frac{9}{5} \times 25 \right) + 32 = \text{---} \text{ } ^{\circ}C$$

$$0^{\circ}C$$

$$T_f = 32$$

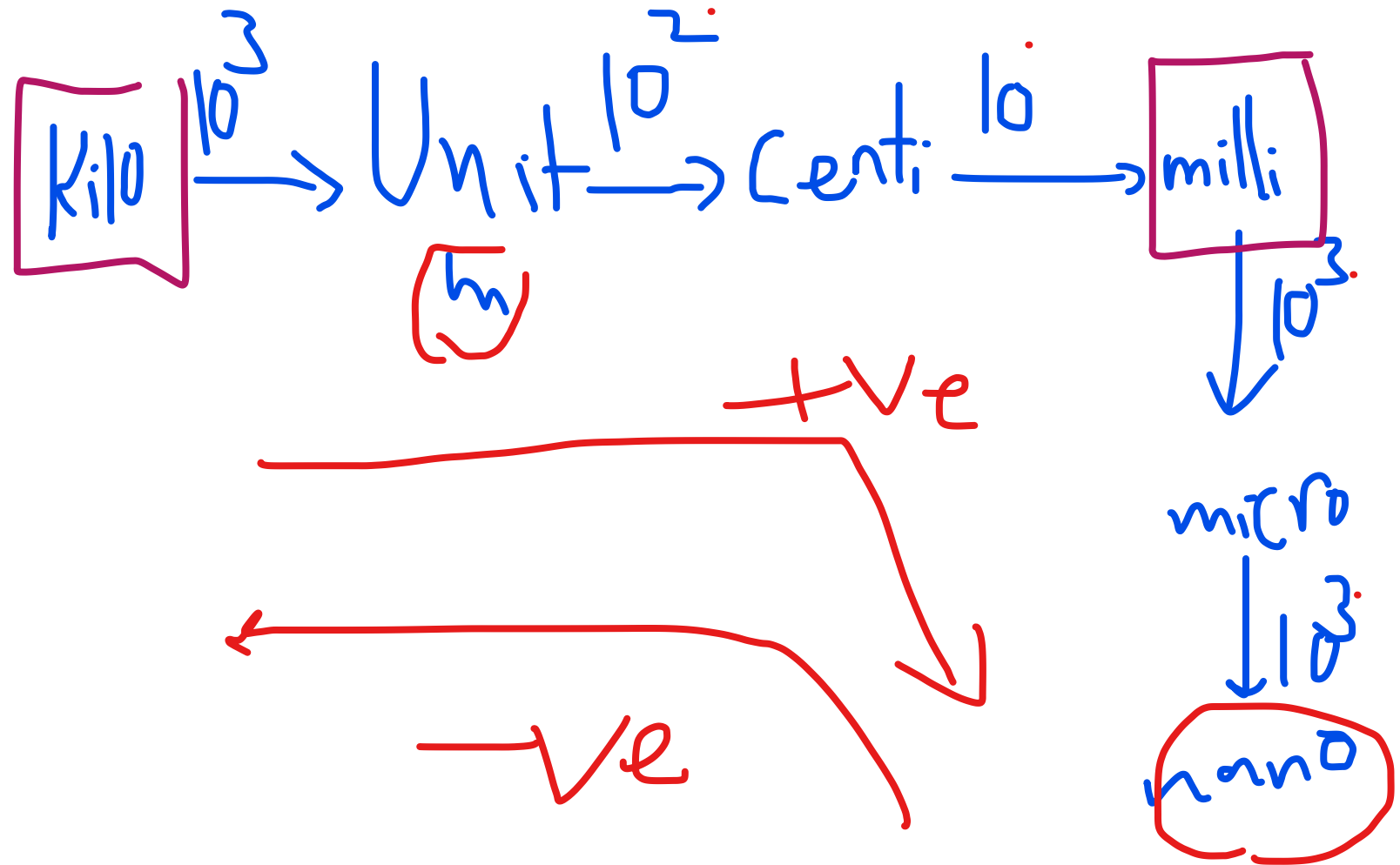
Kelvin

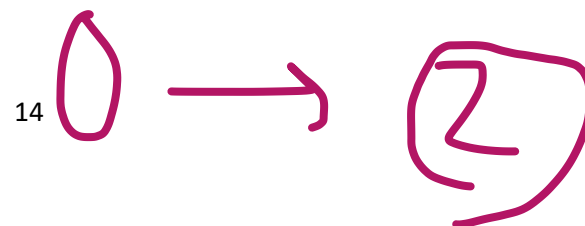
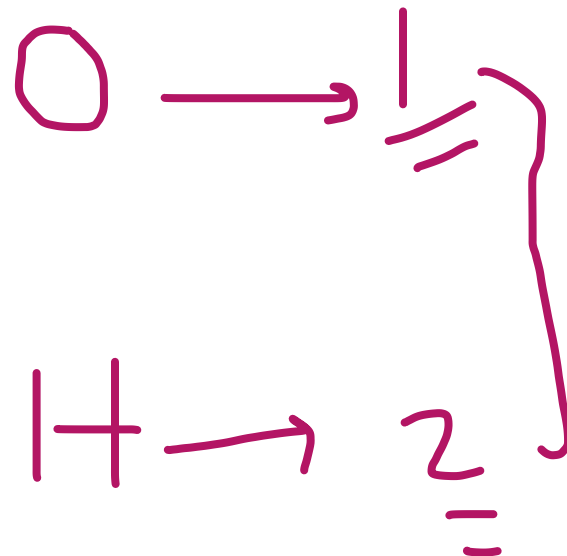
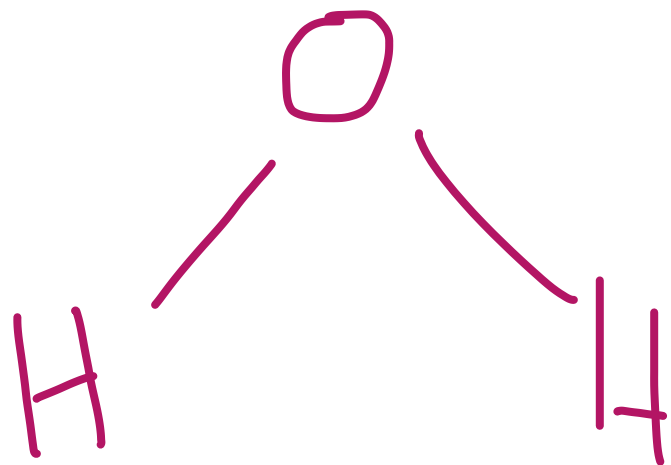
$$T_K = T^{\circ}C + 273.15$$

500 cm $\longrightarrow$ micrometer

$$1 \text{ cm} = 10^4 \mu\text{m}$$

$$500 \cancel{\text{cm}} \times \frac{10^4 \mu\text{m}}{1 \cancel{\text{cm}}} = 500 \times 10^4 \\
 = 5 \times 10^6 \mu\text{m}$$

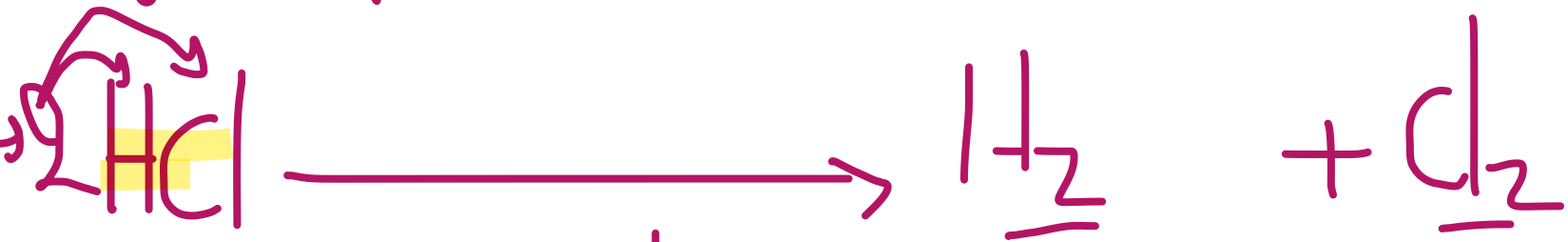




Combination



separation



rearrangement

