

$(P+n)$ Atomic Mass \rightarrow 24
 (4) \rightarrow 12 Mg $+2$ ← Charge
 Atomic Mass $P + n$
 Atomic # #protons
 Charge # electrons (e^-)
 Charged = LOW
 Cations metals \oplus charge \rightarrow lose e^- OIL/LEO Oxidize
 Anions Non-metals \ominus charge \rightarrow add e^- RAG/HER Reduce

Sep 15-8:05 AM

$P+n$	24	$+2$
$-P$	12	
n		

$12P$
 $10e^-$ } $+2$
 $12n$

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JOULES J or kJ

(S) absorb heat release heat
Endothermic vs. Exothermic
 enter exit

feel cold. Pulls heat away from me
 feels hot heat exits

Heat goes HOT → Cold

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σ sigma bond
 π pi bond

$$= \sigma + \pi$$

$$\equiv \sigma + 2\pi$$

$H - \overset{\sigma}{C} \overset{\sigma + 2\pi}{\equiv} C - \overset{\sigma}{C} \overset{\sigma + 2\pi}{\equiv} C - \overset{\sigma}{C} \overset{\sigma + 2\pi}{\equiv} N:$

Single bond
2e-

Double bond
4e-

Triple bond
6e-

$$\begin{matrix} \sigma & \sigma \\ \pi & \pi \end{matrix}$$

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⑦ $\frac{\sqrt{v}}{a} = \frac{a(z-b)}{a}$ PEMDAS

$\frac{\sqrt{v}}{a} = z - b$

+b

$\sqrt{2x-7}$

$\sqrt{2x-7}$

$\frac{\sqrt{v}}{a} + b = z$

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⑧ # Moles of atom 1×10^{22} molecules

element ↙

compound ↘

Element → atoms

Smallest part of element with same properties

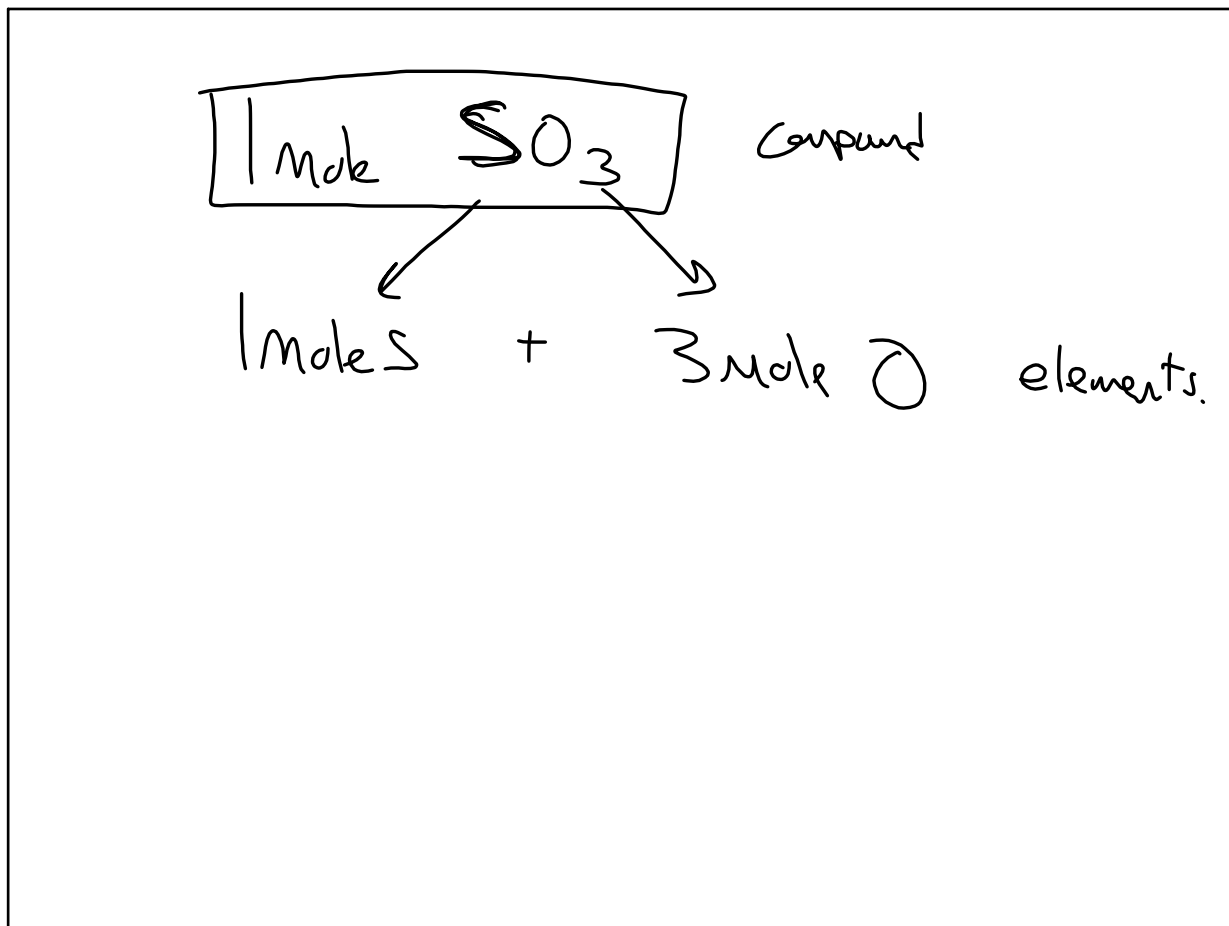
Combine elements ↓

Compound → Molecule

Smallest part of a compound same prop.

H_2O

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