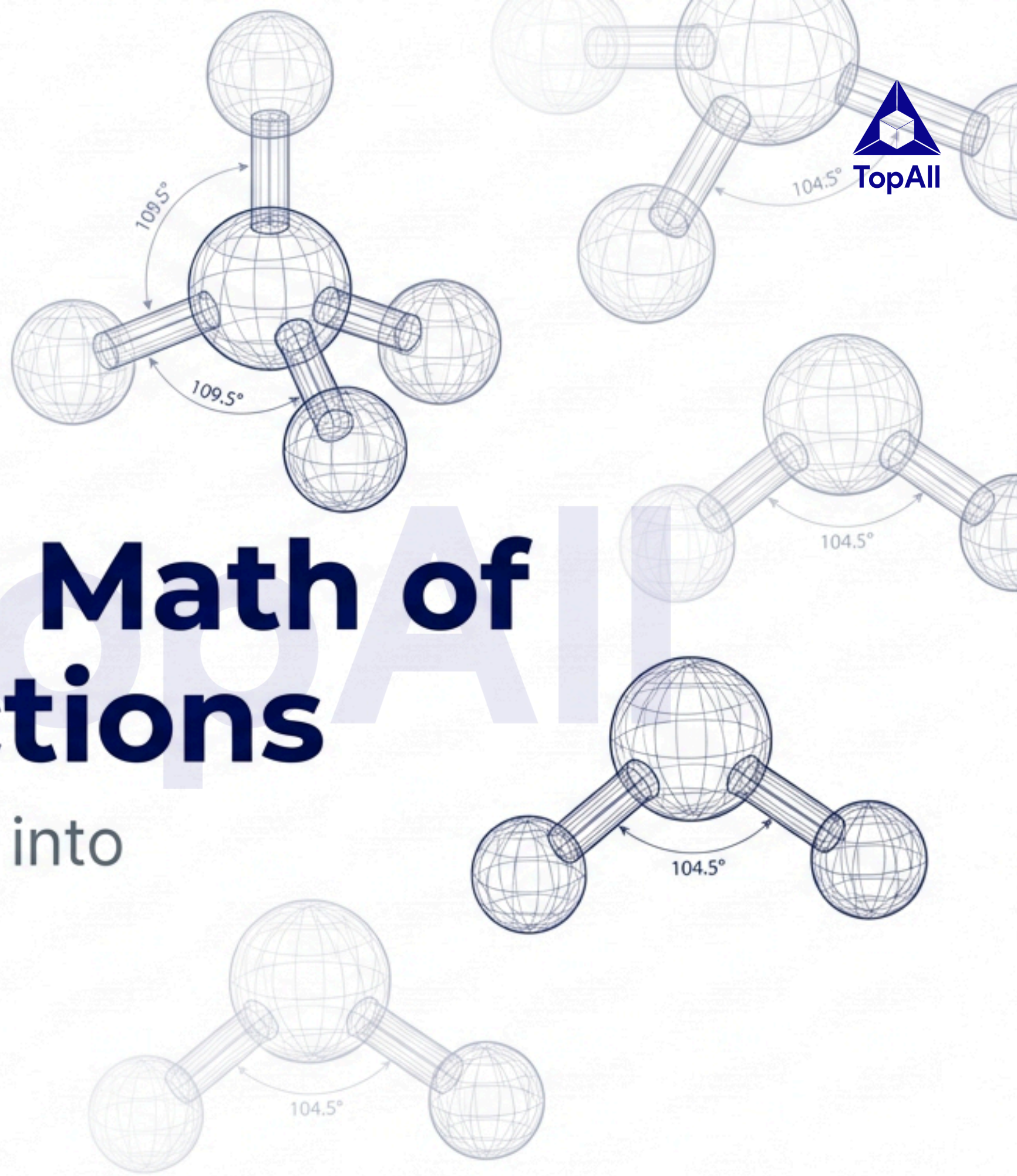
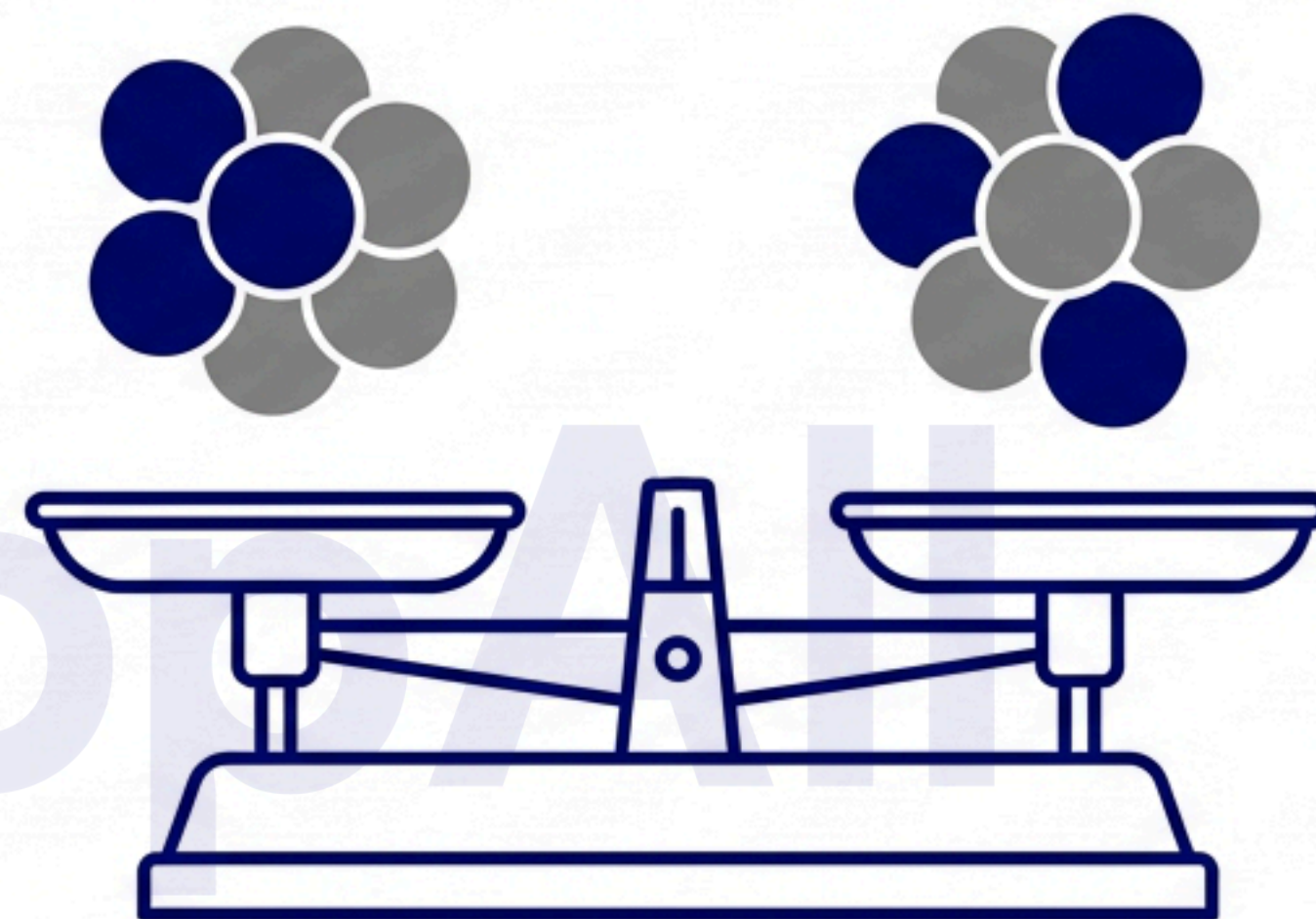


Stoichiometry: Math of Chemical Reactions

Translating chemical equations into calculable physical realities.



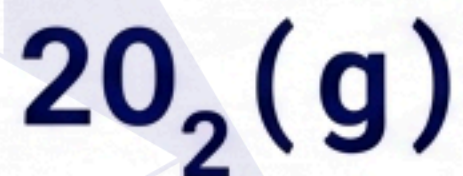
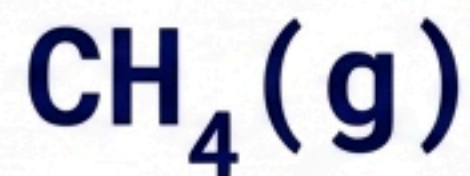
stoicheion (element)
+ metron (measure)
= Stoichiometry



Antoine Lavoisier (1789) - **Matter can
neither be created nor destroyed.**

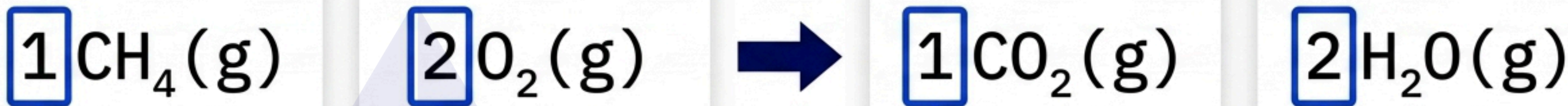
WARNING: An unbalanced equation is mathematically useless.

The Anatomy of a Chemical Blueprint



State of Matter: Gas. (Reactants and products can also be solid (s) or liquid (l)).

The Anatomy of a Chemical Blueprint



Coefficients act as exact proportional ratios.

1 : 2 : 1 : 2

1 molecule of methane requires exactly
2 molecules of oxygen to react.



You've Learned the Theory. Let's Test Them Now.

$$E=mc^2$$



Turn theory into marks with **unlimited MCQs, smart analysis, and focused revision.**

Practice Now



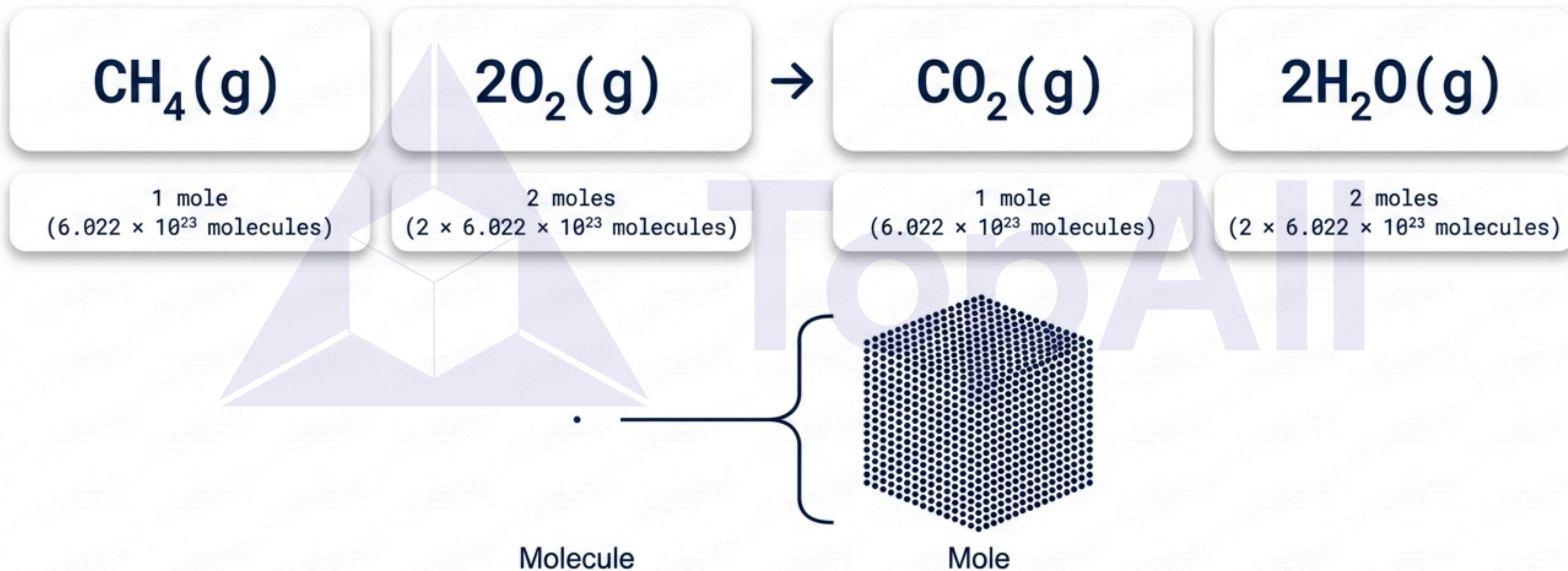
At prep.topall.app

Key Highlights

- » Free Study Material, Videos & Infographics
- » Push Your Limits with Level-Based Challenges
- » Climb the Leaderboard Among Fellow Aspirants
- » Practice Unlimited MCQs for NEET & JEE
- » Get Clear Explanations, Not Just Marks
- » Track Your Performance Smarter

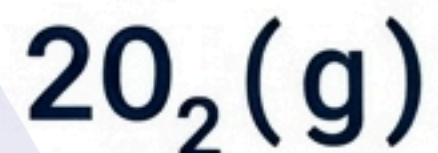
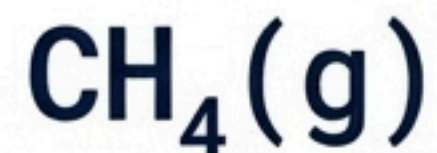


Scaling to the Laboratory: The Mole Concept



The integer ratio (1:2) holds perfectly constant whether viewing single microscopic molecules or massive, mole-sized batches.

The Anatomy of a Chemical Blueprint



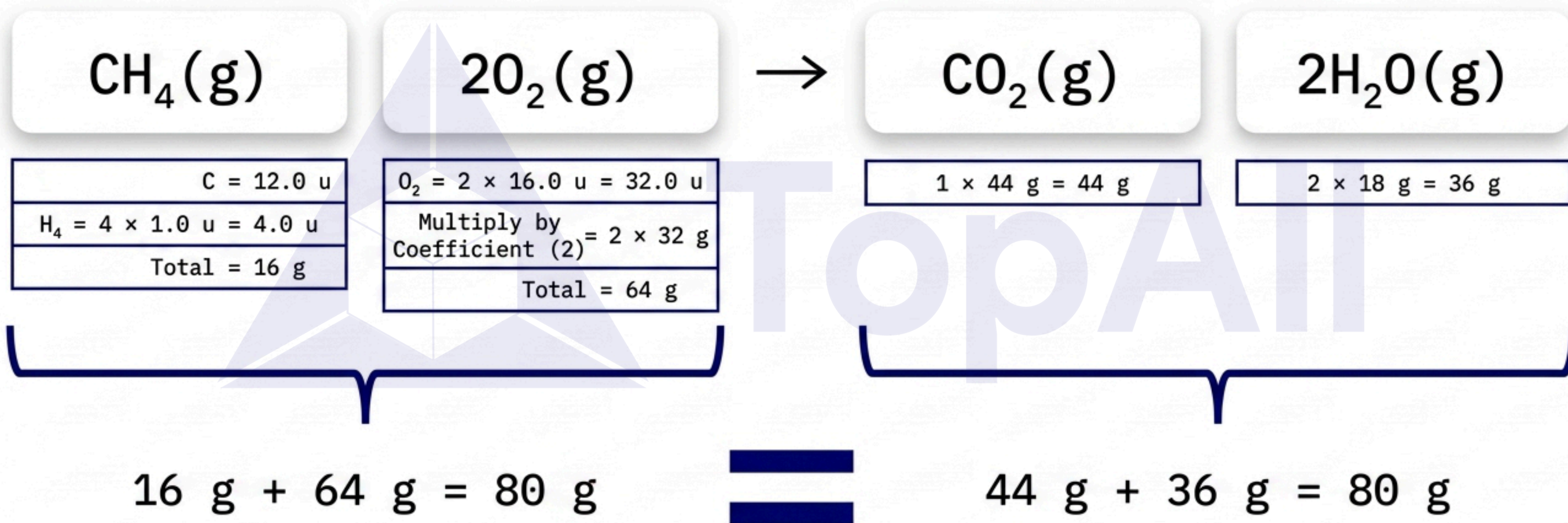
C	= 12.0 u
H ₄ = 4 × 1.0 u	= 4.0 u
Total	= 16 g

O ₂ = 2 × 16.0 u	= 32.0 u
Multiply by Coefficient (2)	= 2 × 32 g
Total	= 64 g



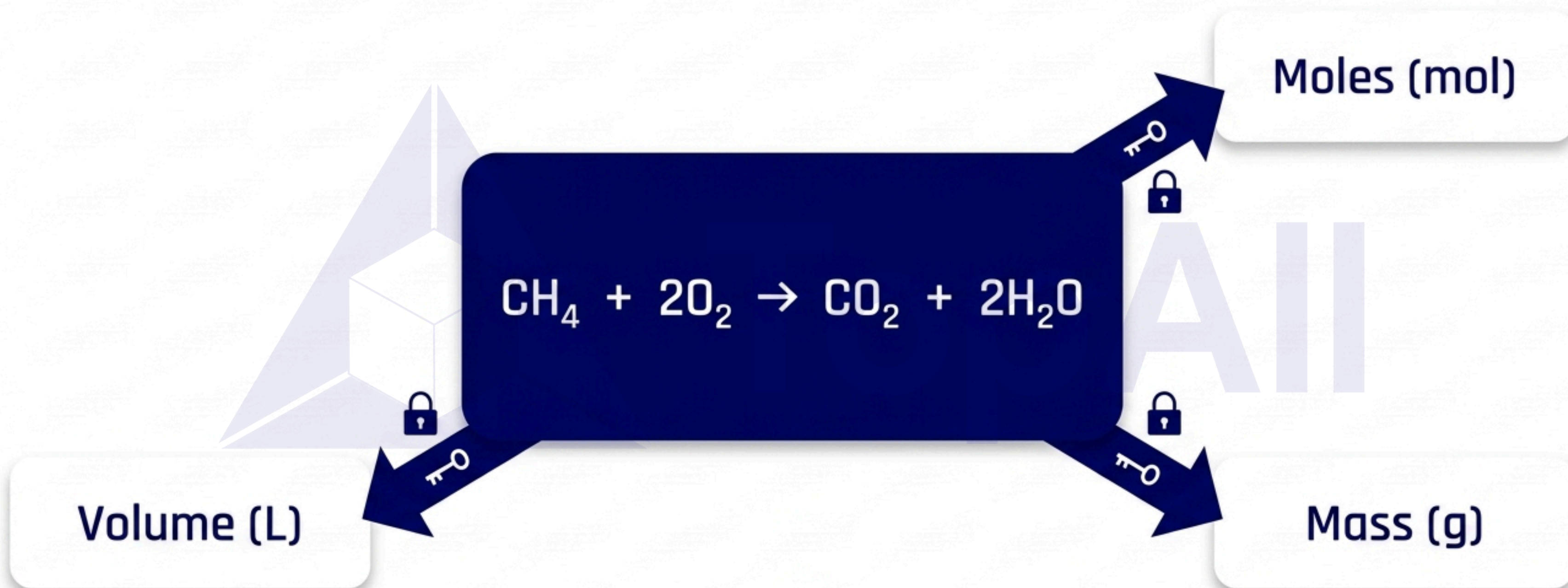
16g CH₄
64g O₂

Conservation of Mass: The Blueprint's Foundation



Mass is Conserved. 80g in = 80g out.

Stoichiometric Engine



The balanced equation is the ultimate translation hub for all chemical math.



You've Learned the Theory.

Now Let's Test It.

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Practicing MCQs gets you marks.

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Practice the moment you finish studying
Jump in while the concept is still fresh in your head

4.5L+
MCQs

1.5L+
Students

AI Powered
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