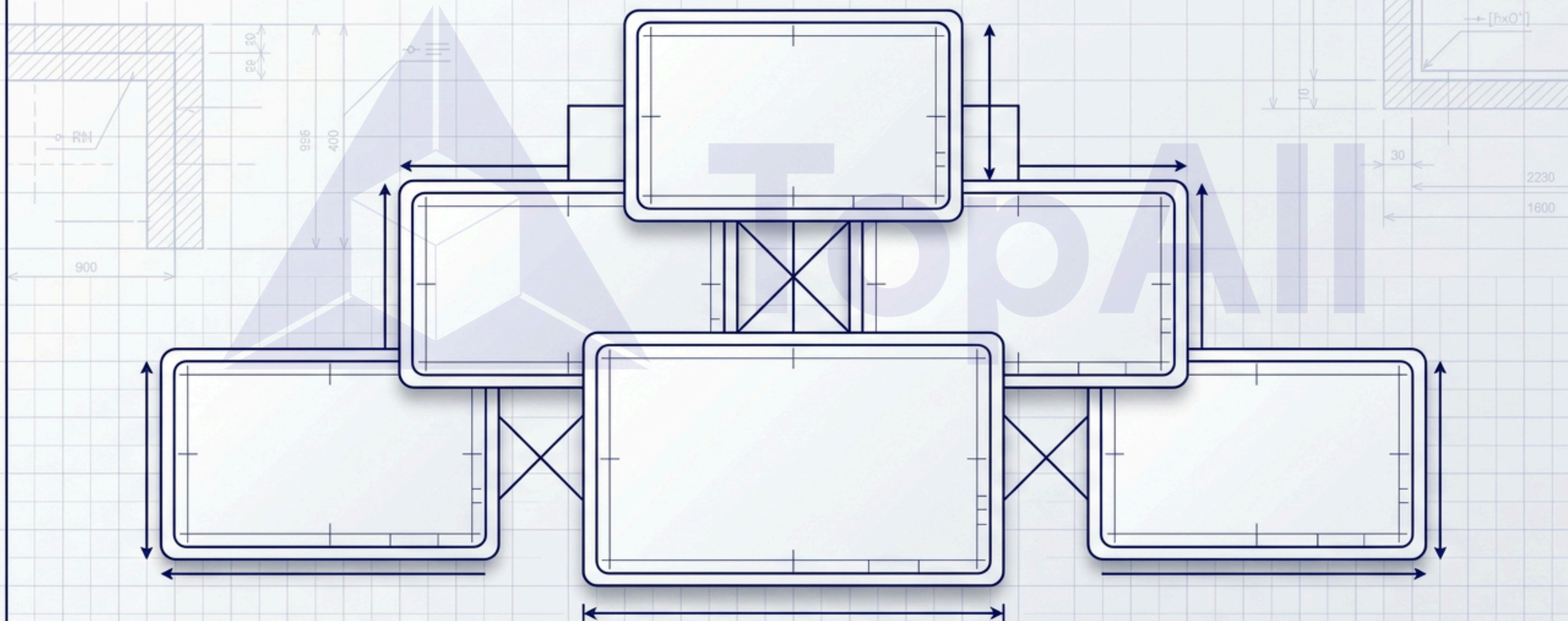


Five Laws That Built Chemistry

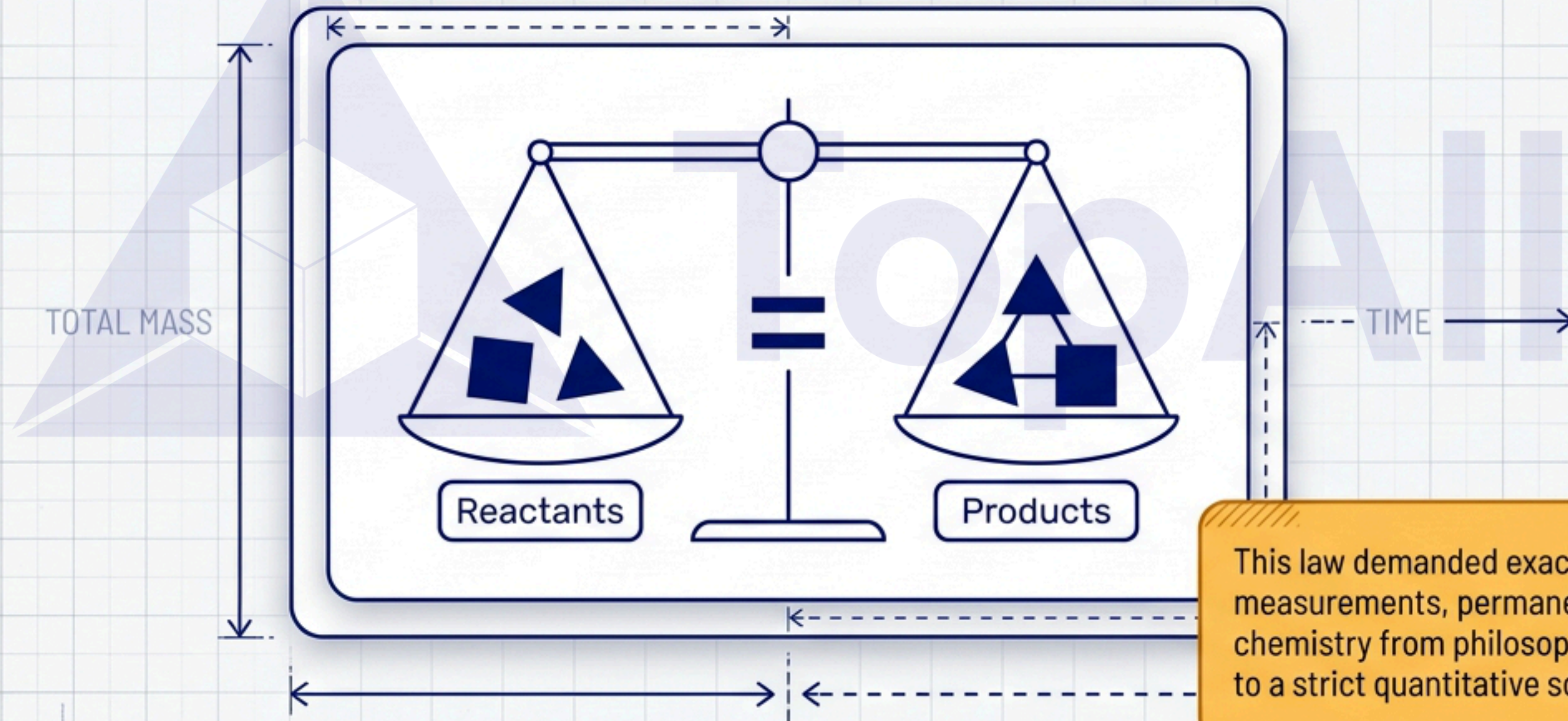
How macroscopic measurements unlocked the atomic theory.



Law of Conservation of Mass

Antoine Lavoisier (1789)

Matter is neither created nor destroyed during physical and chemical changes.



This law demanded exact measurements, permanently shifting chemistry from philosophical alchemy to a strict quantitative science.

Law of Definite Proportions

Joseph Proust



A given compound always contains exactly the same proportion of elements by weight, regardless of its source.

	Natural Sample	Synthetic Sample
Copper	51.35%	51.35%
Carbon	9.74%	9.74%
Oxygen	38.91%	38.91%

Origin does not alter chemical identity.



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



Law of Multiple Proportions

John Dalton (1803)



When two elements form more than one compound, the varying masses of one element combining with a fixed mass of the other are in a ratio of small whole numbers.

2g Hydrogen + **16g** Oxygen = 18g Water

2g Hydrogen + **32g** Oxygen =
34g Hydrogen Peroxide

16:32 → 1:2
**(Simple Whole
Number Ratio)**

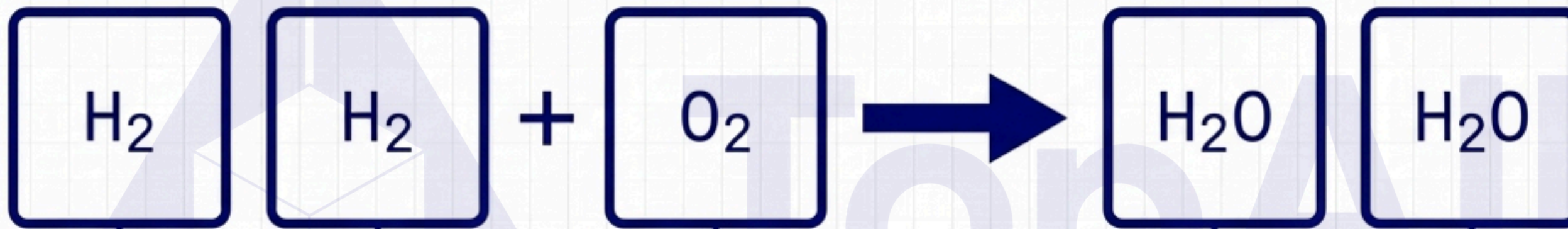
Gay Lussac's Law & Avogadro's Law

Gay Lussac (1808) & Amedeo Avogadro (1811)

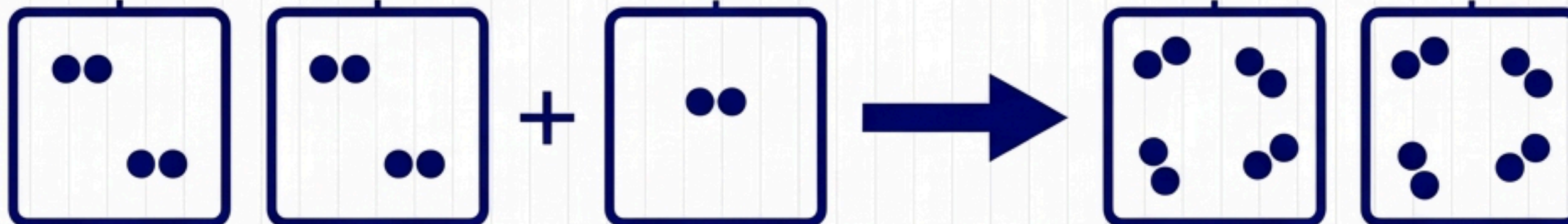
TopAll

Gases combine in simple volume ratios because equal volumes contain equal numbers of molecules.

Macroscopic / Gay Lussac



Microscopic / Avogadro



The Atomic Convergence

These 5 macroscopic laws connected human-scale measurements to the invisible atomic theory.

1. Conservation of Mass

2. Definite Proportions

3. Multiple Proportions

4. Gas Volumes & Molecules

**Dalton's
Atomic
Theory**

The precise, whole-number ratios observed in laboratories proved that matter could not be continuous. These rules required the existence of **discrete, indivisible** building blocks: **atoms**.



You've Learned the Theory.

Now Let's Test It.

Reading notes gets you knowledge.

Practicing MCQs gets you marks.

That's exactly what TopAll Pro is built for.

Try TopAll Pro Now

What TopAll Pro Does Differently

-  **Stuck? Snap it. Solve it. — Doubts AI**
Photo → step-by-step solution in seconds, 24/7
-  **Your AI Coach finds your blind spots**
Concept-level weakness detection — not just chapter-level
-  **4.5 Lakh+ questions. Never run out.**
13× more content than any other prep app in India
-  **Build your own test in 60 seconds**
Pick a chapter, set difficulty — AI does the rest instantly.
-  **AI Recommendation that helps you improve**
AI Recommendation Analysis your Tests and tell you where you need to improve.



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
In-Depth Analysis