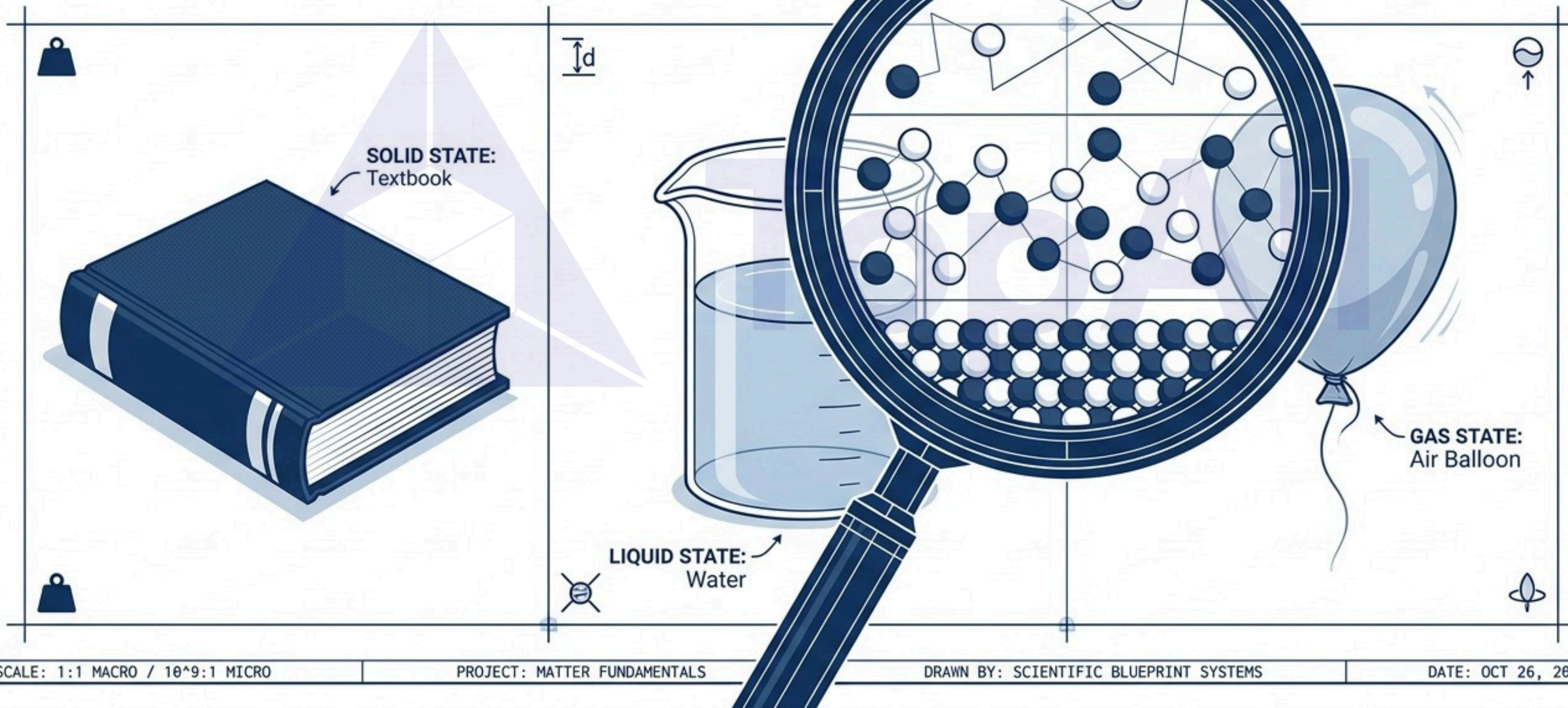
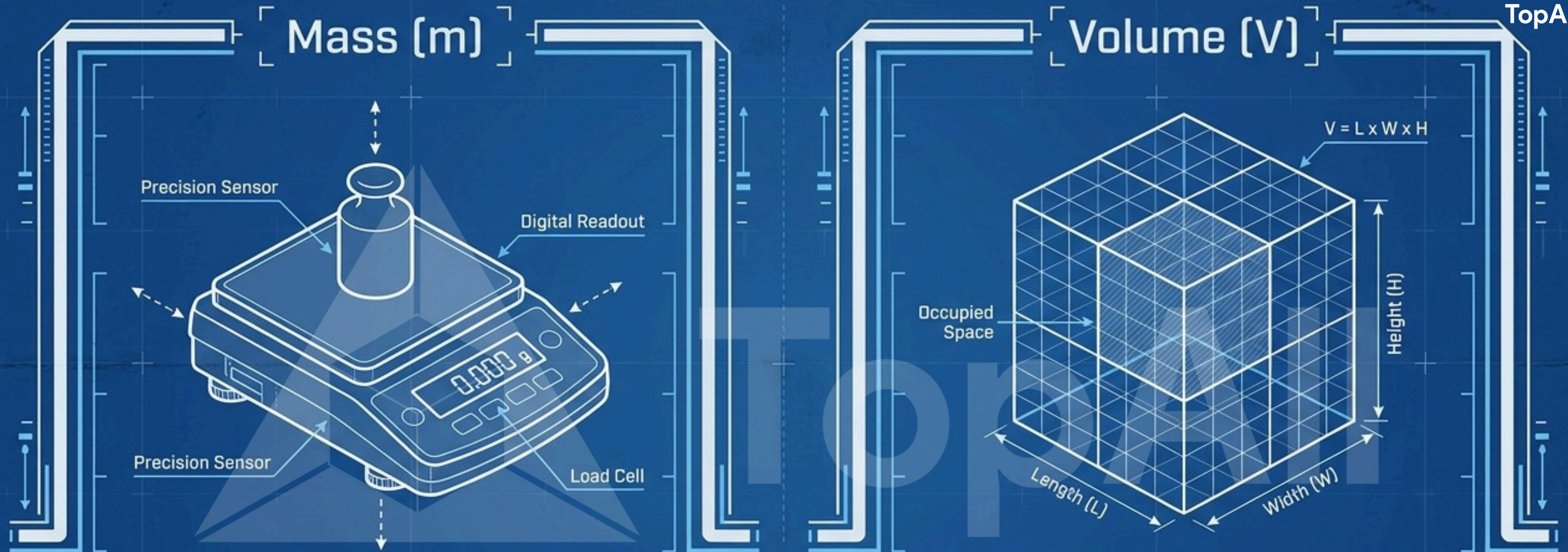


What Is Matter?

Core Concept: The Physical Universe



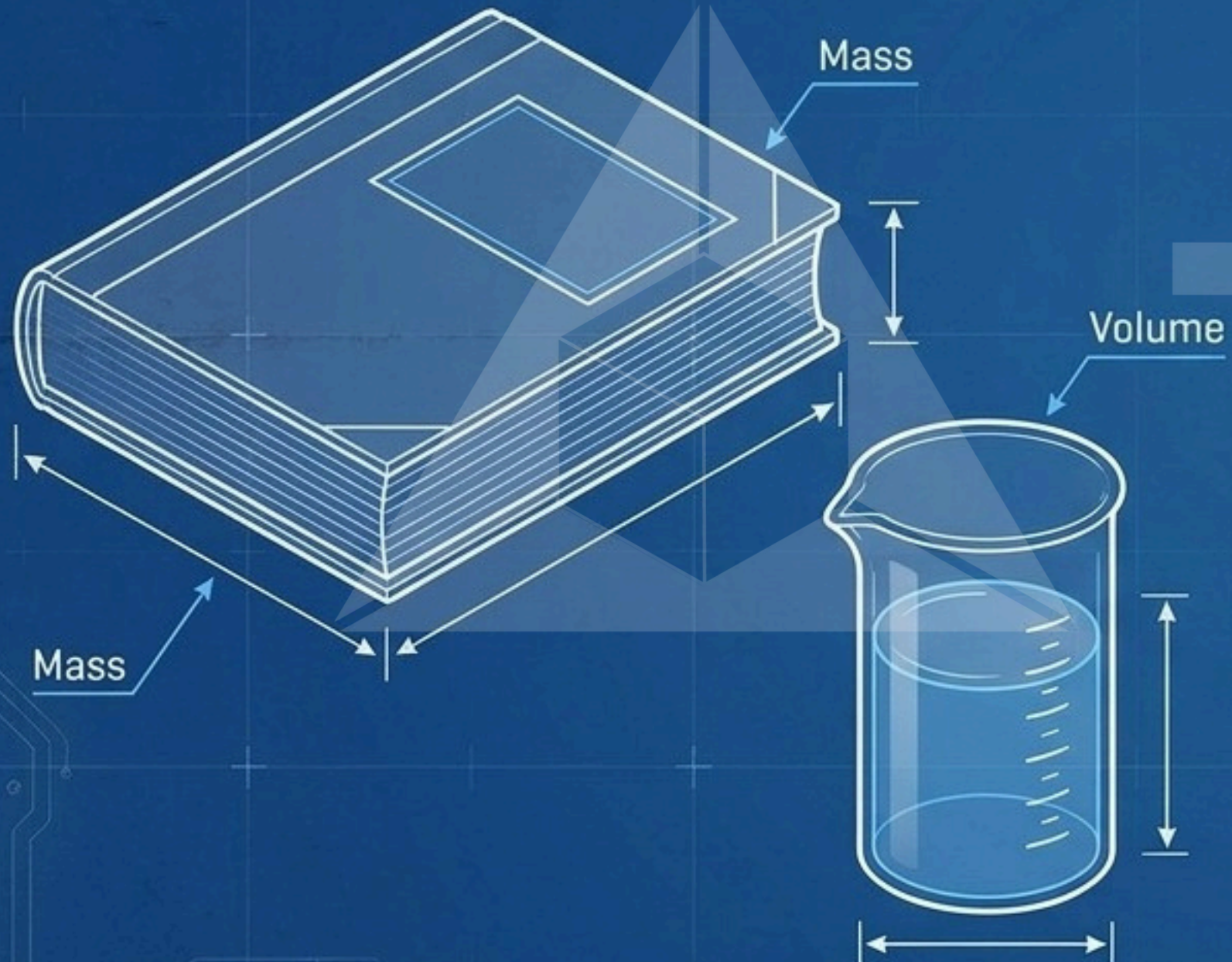
THE DUAL CRITERIA OF MATTER



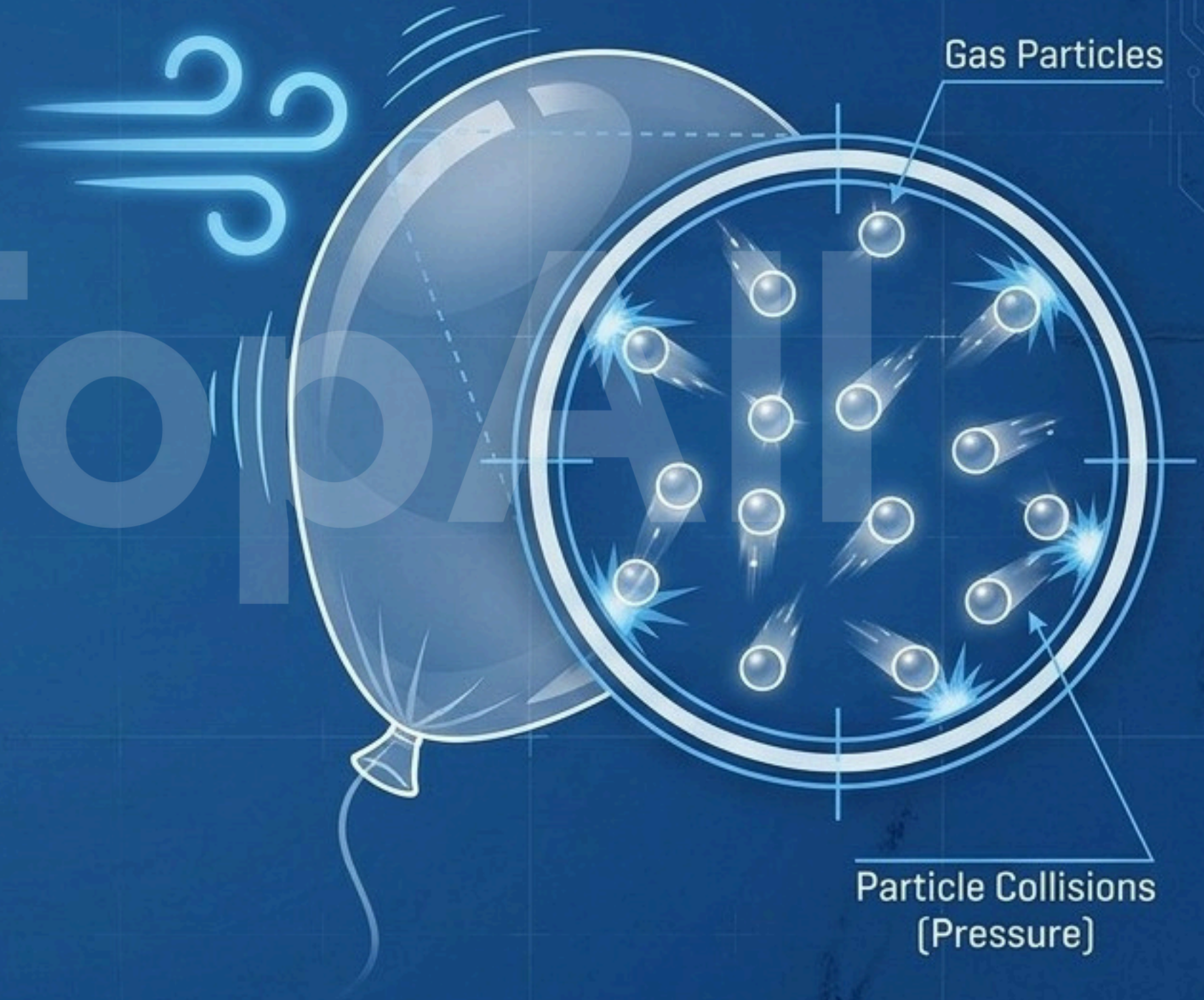
Anything which has mass and occupies space is called matter.

Visibility Does Not Define Matter

Macroscopic & Visible



Microscopic & Invisible





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

$$E=mc^2$$



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Key Highlights

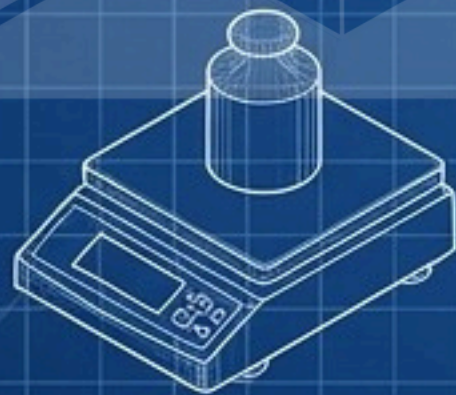
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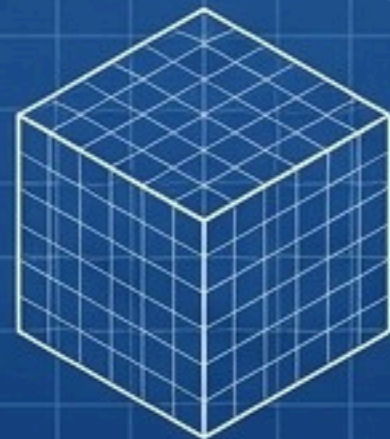
THE MATTER DIAGNOSTIC RULE

Rule Bank card

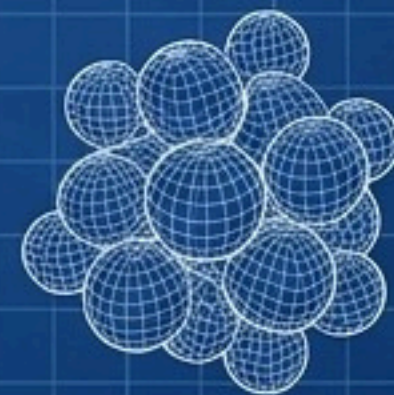
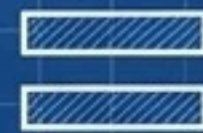
IF [Substance possesses Mass (m)]
AND [Substance possesses Volume (V)]
THEN = MATTER



[Mass (m)]



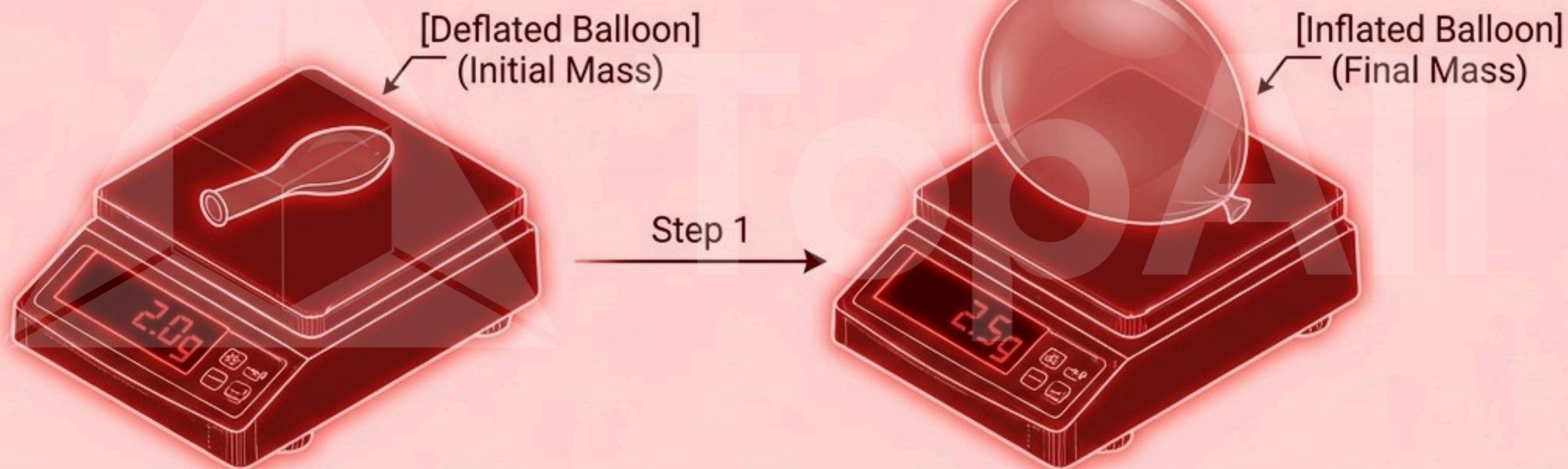
[Volume (V)]



[Matter]

JEE Trap Alert: The “Invisible” Illusion

Do not rely on the naked eye to determine volume or mass. Invisible gases are still matter.

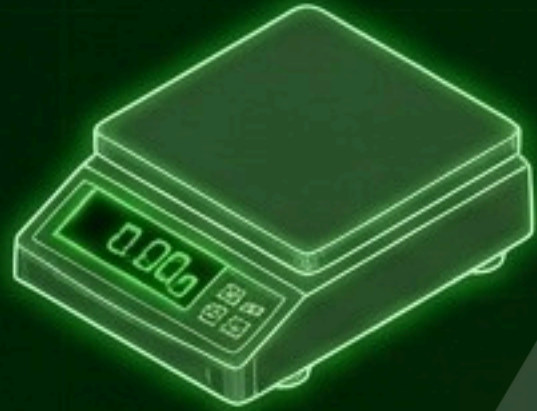


The scale proves mass, and the inflation proves occupied space.
Therefore, Air = Matter.

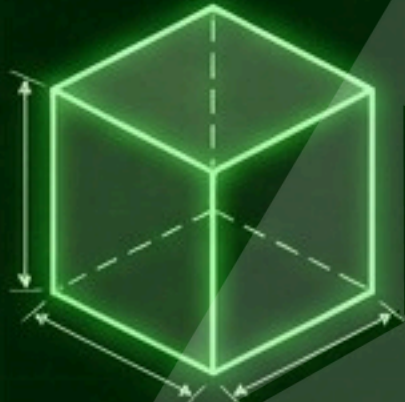
Mini Application: Classifying the Universe

Entity	Has Mass (m)?	Occupies Space (V)?	Is it Matter?
Book	✓	✓	✓
Water	✓	✓	✓
Air	✓	✓	✓
Light	✗	✗	✗ - It is Energy

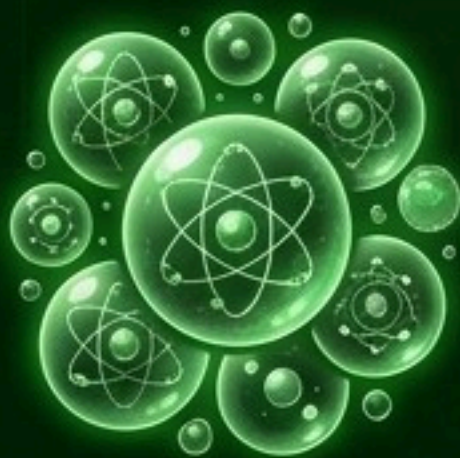
Final Revision: The Nature of Matter



1. Possesses Mass (m)



2. Occupies Space (V)



3. Particulate Nature

All matter is ultimately composed of **microscopic particles (atoms/molecules)**, which is why it possesses mass and **volume**.



You've Learned the Theory.

Now Let's Test It.

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