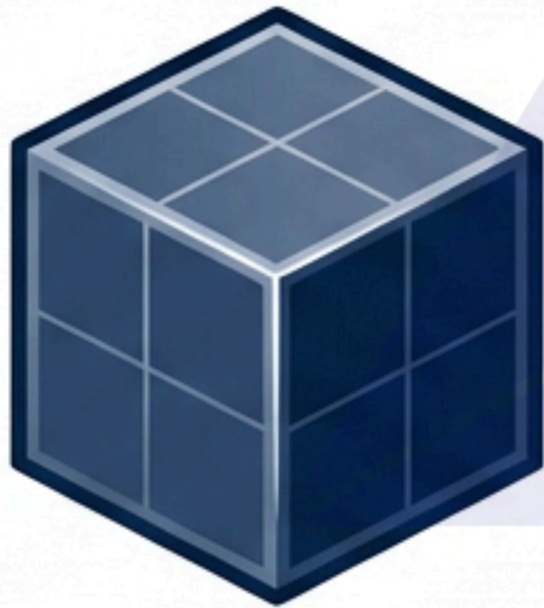


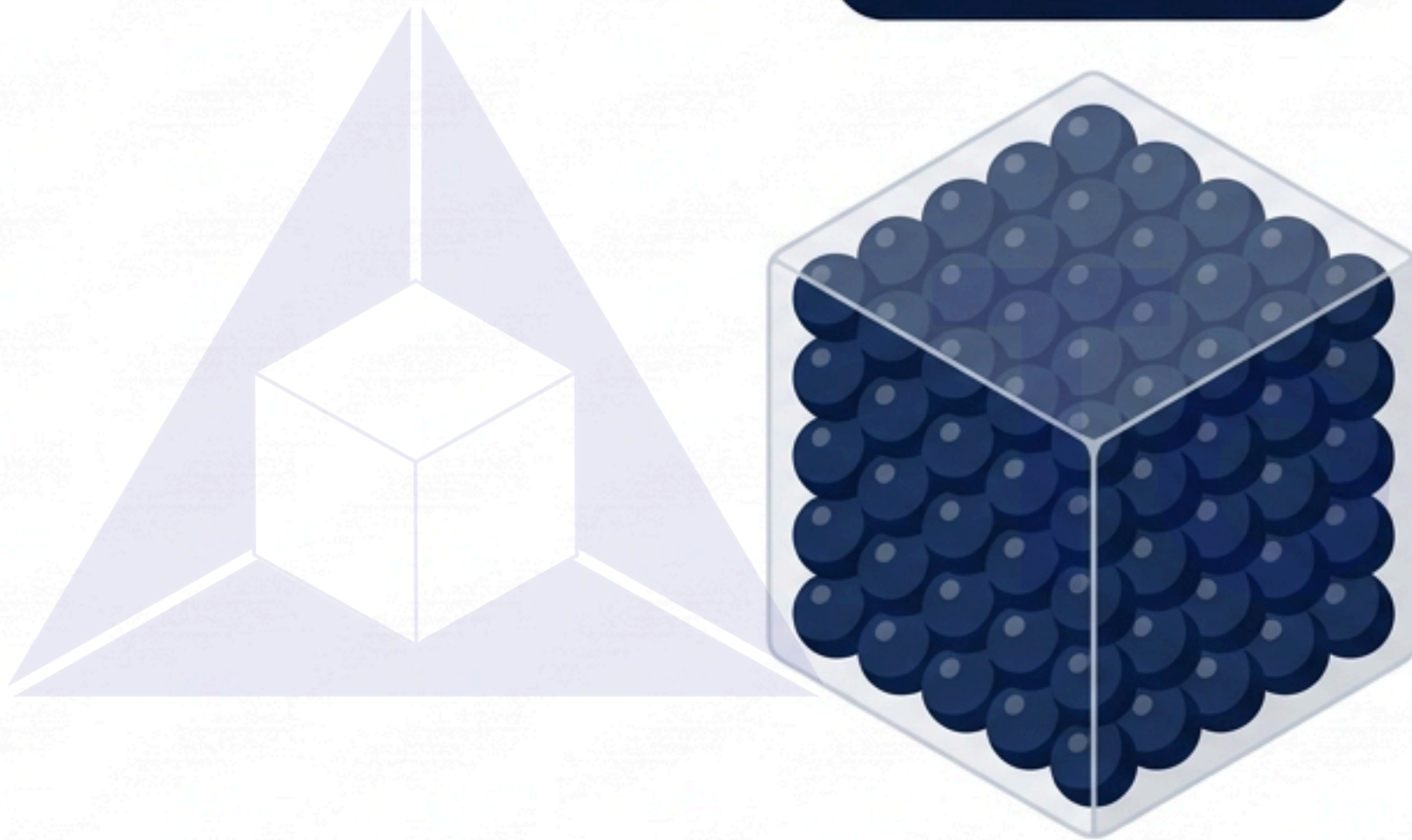
Mass vs Weight

Understanding the fundamental difference in chemistry.



Mass: The Amount of Matter

CONSTANT



Mass is the intrinsic amount of matter present in a substance. It is an absolute property that does not change regardless of location or environment.

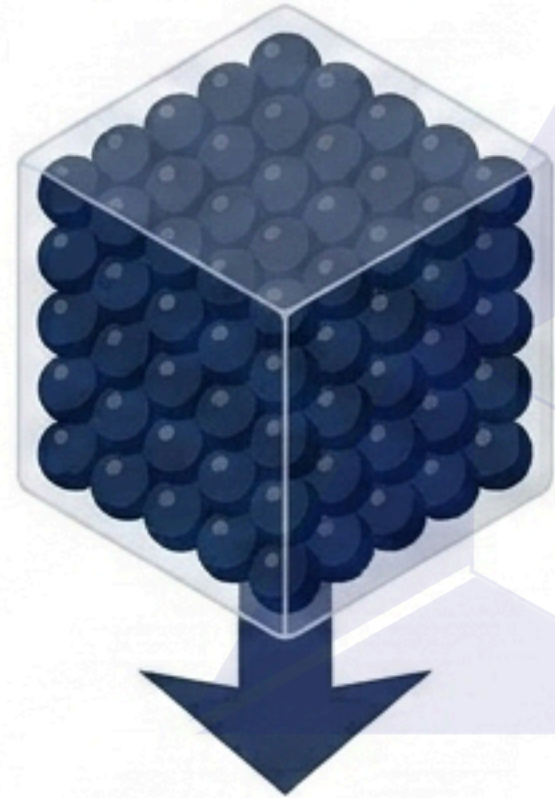
Weight: The Force of Gravity



Alert: You should be careful in using these terms interchangeably

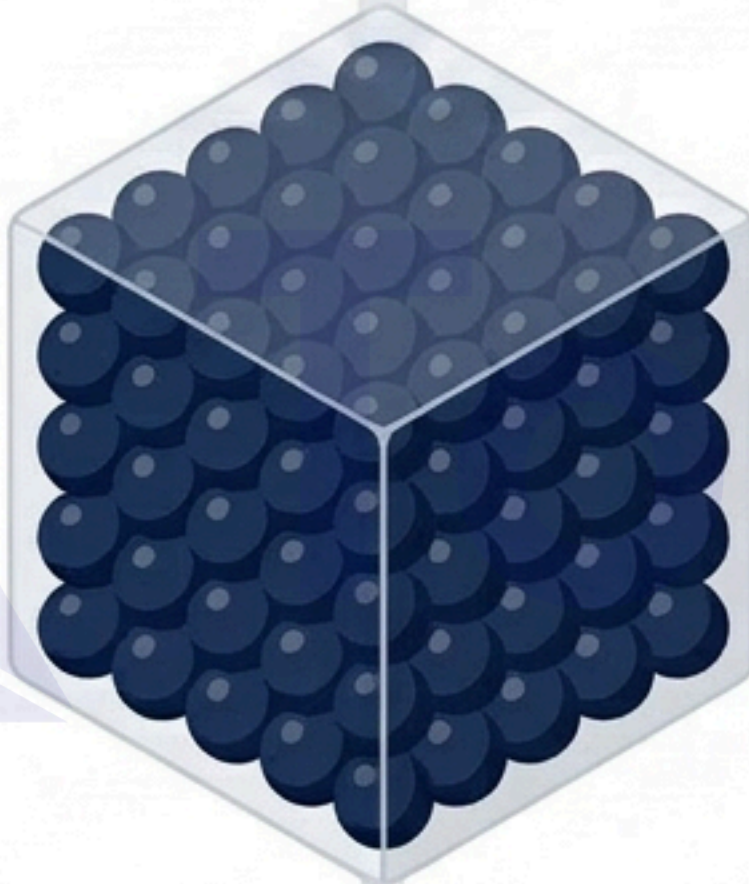


Earth



Strong Gravity

Moon/Space



Weak/Zero Gravity

Weight is the force exerted by gravity on an object's mass. It varies from one place to another due to changes in gravitational pull.



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$$E=mc^2$$



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- » Get Clear Explanations, Not Just Marks
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Distinguishing Mass and Weight

MASS



Amount of matter present.



Constant everywhere.

WEIGHT

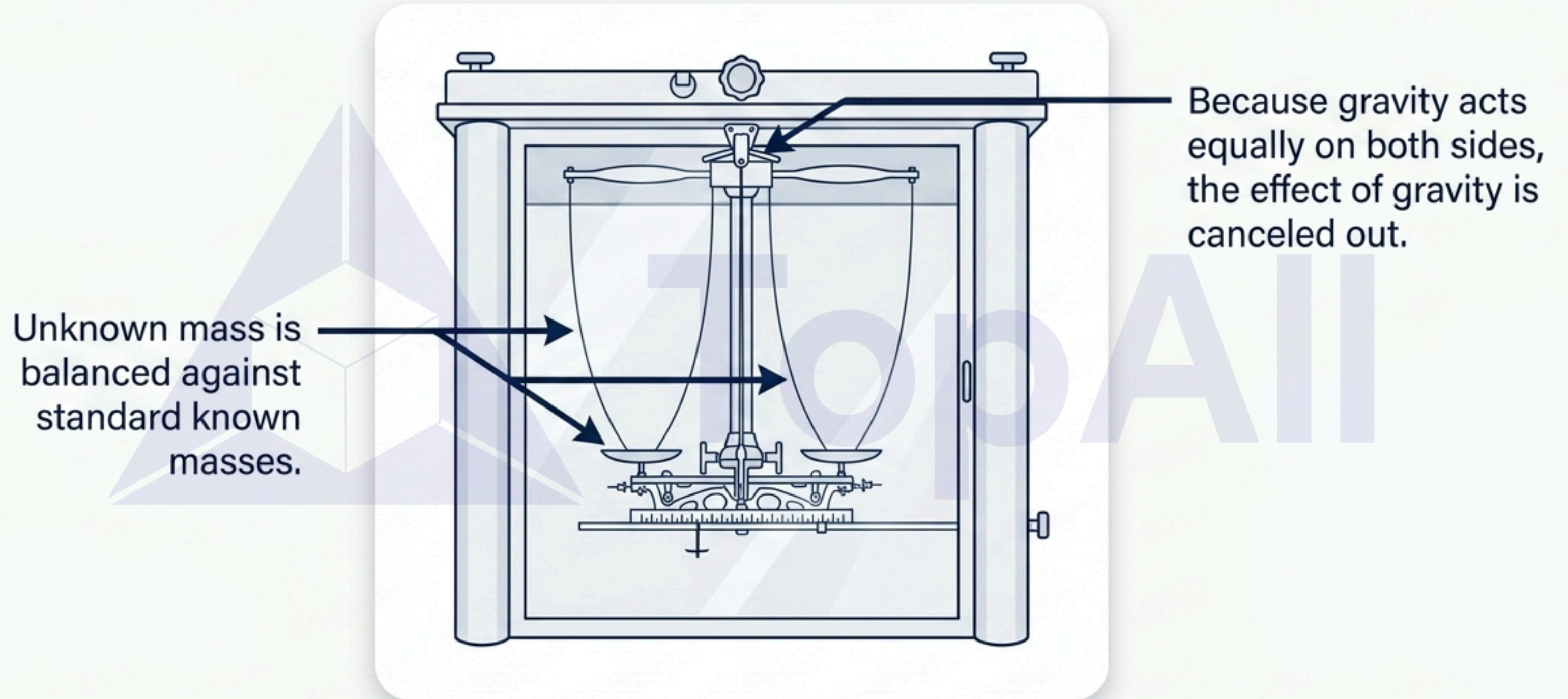


Force exerted by gravity.



Varies with gravity.

The Analytical Balance



Chemists determine mass accurately in the laboratory using an analytical balance.

Units and Application in Chemistry

Chemistry relies on MASS, most often measured in GRAMS.

The SI base unit is the kilogram (kg). However, because chemical reactions typically involve smaller amounts, laboratories utilize the fractional gram.

$$1 \text{ kg} = 1000 \text{ g}$$



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