



Matter

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Anything that occupies space and has mass

Mass

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The amount of matter in a defined space

Volume

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The amount of space an item takes up

Matter Measurement

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Kilograms
(additionally grams and milligrams)





Weight

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Mass x
Gravity

Three states
of matter

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Solid, liquid,
gas

Solids
features

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Definite shape, definite
volume, cannot be easily
compressed, cannot flow

Liquids
features

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No definite shape,
definite volume, not
easily compressed,
able to flow





Gases features

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No definite shape, no definite volume, can be easily compressed, can flow

Changes of state

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Solid --> Liquid --> Gas (Can be reversed)

Conservation of mass

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In an isolated system the total mass will stay the same despite physical and chemical changes

Closed system

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Prevents anything from entering or leaving the system - total mass stays the same

