

Introduction to Matter

Chapter 1



How is matter described?

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Describing Matter

Section 1-1



What properties describe matter?

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What properties describe matter

Matter is anything that has mass and takes up space

All the "stuff" around you (air, plastic, wood, glass, paper..)

Matter can have different properties or characteristics used to describe and classify it

Chemistry is the study of matter and how matter changes

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Substances

Some types of matter are substances and other are not

Substance is a single kind of matter that is pure; always in a specific makeup or composition

ex. Table salt (NaCl)



same composition whether it came from a salt mine or the ocean



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Physical and chemical properties of matter

Every form of matter has 2 kinds of properties - physical and chemical

Physical property - a characteristic of a substance that can be observed without changing into another substance
ex. color, state of matter, conductivity, shape, density, malleability, ductility, volume, mass

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Chemical property- is a characteristic of a substance that describes its ability to change into a different substance
can't always be seen or touched
needs a chemical reaction to see it change
ex. reactivity (baking soda and vinegar)
flammability (burning a match)

Physical and chemical properties are used to classify matter

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Lesson 1- Describing Matter

Every form of matter has of
properties - and properties

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The diagram is an interactive interface with a purple border. At the top left is an 'Edit' button, at the top center is a 'Reset' button, and at the top right is a question mark icon. The main area contains two large spiral graphics. The left spiral is purple and white, with the text 'Physical Property' overlaid in yellow. The right spiral is dark green and white, with the text 'Chemical Property' overlaid in yellow. Below these spirals are eight purple buttons arranged in two rows of four. The first row contains buttons for 'density', 'shape', 'color', and 'state of m ...'. The second row contains buttons for 'tarnishing', 'reactivity', 'flammability', and 'rusting'.

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