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## Chemistry: Matter and Its Changes

By Brady, James E.; Senese, Fred

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Can Matter Change Its State? Matter is present everywhere. You're probably touching or looking at it now. But will it retain its shape forever in all conditions? Can matter change its state? Let's find out more about it. Suggested Videos. What is Matter? Matter is a substance that possesses mass and occupies space. Chemistry studies it, and this study has various aspects and one of the important aspects is its classification depending on its chemical composition into three main categories i.e. elements, compounds, and mixtures. Which further classifies on the basis of its characteristic properties into metals, non-metals, and metalloids. It can be in liquid, gaseous, solid or plasma state. Can Matter Change Its Shape? The answer is "Yes". It can definitely change its shape, size, and volume.

2.3: Energy and Chemical Change (1). 2.4: Molecular Compounds of Nonmetals (2). 2.5: Ionic Compounds (6). 7.3: Internal Energy and the Kinetic Theory of Matter. 7.4: Experimental Measurement of Heat. 7.5: Energy Changes in Chemical Reactions. 7.6: Internal Energy and Enthalpy. 7.7: Enthalpy and Heats of a Reaction. Changes Chemical changes produce a new substance while physical changes do not. Changes in state (melting, freezing, boiling, condensing, etc.) are physical changes. Dissolving is also a physical change, although it is often confused for a chemical change. Reacting with another type of matter, burning or rusting are examples of chemical changes. Chemistry, the study of matter and its interactions is introduced, along with descriptions of classic branches of chemistry (organic, inorganic, physical and analytical). Matter is defined and categorized into pure substances (compounds or elements) and mixtures (homogeneous or heterogeneous). Energy is introduced, along with definitions of Potential Energy and Kinetic Energy.