

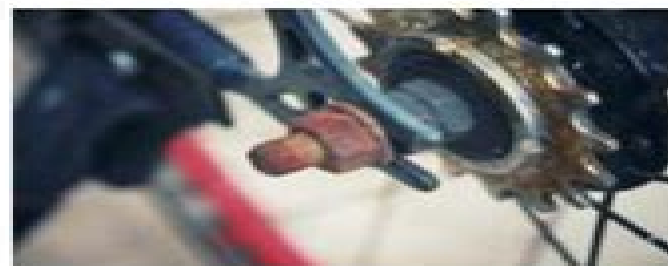
## Physical and Chemical Changes

Now that you know the difference between a physical and chemical property, this information can be used to determine whether a change in matter can be identified as a physical or chemical change. Just like the properties of matter, physical and chemical changes of matter have different characteristics which can usually be easily identified.

<u>Physical Changes</u>	<u>Chemical Changes</u>
<ul style="list-style-type: none"><li>• A change in size, shape, color, or a phase change (solid, liquid, gas)</li><li>• No new substance is formed and the molecules do not change</li></ul>	<ul style="list-style-type: none"><li>• A change in the physical and chemical properties</li><li>• A new substance is formed and the molecules of the substance are changed</li></ul>
<u>Examples of Physical Changes</u> <ol style="list-style-type: none"><li>1. Melting a cube of sugar in coffee because it is still sugar</li><li>4. Water changed to an ice cube, boiling water, or a melting ice cube, molecules remain the same</li><li>5. Cutting apart an apple into smaller pieces making it easier to eat</li></ol>	<u>Examples of Chemical Changes</u> <ol style="list-style-type: none"><li>1. Burning a cube of sugar with fire changes its molecules</li><li>4. Baking the ingredients of a cake changes many of the molecules due to the heat</li><li>5. An apple beginning to rot or being digested inside a person's stomach after it is eaten, will both change its molecules</li></ol>

Chemical and physical changes take place every day all around you. If you change the way something looks, but have not made a new substance, it is a **physical change**. If the substance has been changed into another substance it is a **chemical change**.

In a chemical change the atoms making up the molecules change. There is a **chemical reaction** that takes place during a chemical change. The reaction takes place usually due to another substance or heat added to it. One of the most commonly seen chemical reaction is rust forming on metal. If you leave your bike in the rain, it may begin to rust. Iron is exposed to oxygen gas in the air which results in rust. The iron is **oxidized** (oxygen added) and becomes iron oxide, which is the chemical name for rust.



There are many, many other examples of physical and chemical changes. In summary, if the molecules stay the same it is a physical change, if the molecules change, it is a chemical change.



**Name three of the same physical and chemical changes that take place in your life each day.**

*Learn*  
BRIGHT

# Physical And Chemical Changes Lessons

**Yi-Tong Ma**



## **Physical And Chemical Changes Lessons:**

## Unveiling the Power of Verbal Beauty: An Psychological Sojourn through **Physical And Chemical Changes Lessons**

In a world inundated with screens and the cacophony of instant transmission, the profound energy and psychological resonance of verbal art often fade into obscurity, eclipsed by the regular onslaught of noise and distractions. However, nestled within the musical pages of **Physical And Chemical Changes Lessons**, a captivating perform of fictional beauty that impulses with natural emotions, lies an remarkable journey waiting to be embarked upon. Penned with a virtuoso wordsmith, this enchanting opus instructions readers on a psychological odyssey, softly revealing the latent potential and profound affect stuck within the delicate web of language. Within the heart-wrenching expanse with this evocative analysis, we can embark upon an introspective exploration of the book is key subjects, dissect their charming publishing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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