

# CHEMICAL REACTIONS

## Chemical Reactions

A chemical reaction is when two or more things combine to make something new. This can happen in your kitchen, in a factory, or even in your own body!



Let's think about an example of a chemical reaction that you might see in your kitchen. If you mix together baking soda and vinegar, you'll see bubbles form. This is because the baking soda and vinegar are reacting to make a new substance called carbon dioxide. Carbon dioxide is the same gas that makes soda bubbly and is also the same gas that we breathe out when we exhale!

Another example of a chemical reaction is when iron rusts. Rusting is a type of chemical reaction that happens when iron is exposed to water and oxygen. Iron is a type of metal, and when it rusts, it turns red and flaky. Rust is actually a new substance that forms when the iron reacts with water and oxygen.

Chemical reactions also happen in our bodies. For example, when you eat food, your body breaks down the food into smaller parts using chemical reactions. This helps your body get the energy it needs to grow and do things like run and play.

Chemical reactions can also happen in factories. Factories use chemical reactions to make things like medicine, candy, and plastic. These chemical reactions can be very complex and require special tools and equipment to do safely.

Overall, chemical reactions happen all around us! They can be big or small, simple or complex, but they always make something

## Chemical Reactions

| Name: _____                                                                                           | Date: _____                                                                                           |
|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Q.1</b> In a chemical reaction two or more things:                                                 | <b>Q.2</b> When baking soda and vinegar are mixed together, they create:                              |
| a. Combine to make something new                                                                      | a. oxygen                                                                                             |
| b. Stay the same                                                                                      | b. carbon dioxide                                                                                     |
|                                                                                                       | c. rust                                                                                               |
| <b>Q.3</b> When iron is exposed to water and oxygen, what new substance is created?                   | d. nitrogen                                                                                           |
| a. Chlorine                                                                                           | <b>Q.4</b> Do chemical reactions also happen in our bodies?                                           |
| b. Rust                                                                                               | a. Yes                                                                                                |
| c. Carbon dioxide                                                                                     | b. No                                                                                                 |
| d. Methane                                                                                            | <b>Q.5</b> Which of the following is an example of things made in factories using chemical reactions? |
| <b>Q.5</b> Which of the following is an example of things made in factories using chemical reactions? | a. Blue                                                                                               |
| a. Furniture                                                                                          | b. Green                                                                                              |
| b. Medicine                                                                                           | c. Red                                                                                                |
| c. Hammer                                                                                             | d. Yellow                                                                                             |
| d. Rock                                                                                               | <b>Q.6</b> What is the gas we breathe out when we exhale?                                             |
| <b>Q.7</b> What is the gas that makes soda bubbly?                                                    | a. Oxygen                                                                                             |
| a. Oxygen                                                                                             | b. Nitrogen                                                                                           |
| b. Nitrogen                                                                                           | c. Carbon dioxide                                                                                     |
| c. Carbon dioxide                                                                                     | d. Helium                                                                                             |
| d. Helium                                                                                             | <b>Q.10</b> What is the function of chemical reactions in our body?                                   |
|                                                                                                       | a. To create energy                                                                                   |

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## Enjoying the Track of Appearance: An Psychological Symphony within **Lesson 1reading And Study Workbook Chemical Reactions**

In some sort of taken by displays and the ceaseless chatter of quick conversation, the melodic beauty and psychological symphony produced by the written word usually fade into the backdrop, eclipsed by the relentless sound and disturbances that permeate our lives. But, located within the pages of **Lesson 1reading And Study Workbook Chemical Reactions** a charming literary value brimming with fresh thoughts, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, this fascinating masterpiece conducts visitors on a psychological trip, skillfully unraveling the hidden melodies and profound influence resonating within each carefully constructed phrase. Within the depths of the moving assessment, we shall discover the book is main harmonies, analyze its enthralling writing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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