Name:

Physical and Chemical Changes

Understanding Physical and Chemical Changes

In our daily lives, we often witness a myriad of transformations in the substances that surround us.

These alterations can be broadly categorized into two

fundamental types: r changes, each impar the materials involve

Physical change substances but rathe illustrative example c solid ice state to a liq water emerges, yet n cutting fruits, or free:

Contrastingly, c each possessing disti

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Physical Change
Chemical Change

mation of new
existing material. An
on of water from a
at. The ice melts, and
aring a sheet of paper,
nysical changes.

f new substances, als. Consider the

reaction between baking soda and vinegar. As these two substances interact, bubbles form, accompanied by a distinctive fizzing sound. This reaction results in the production of entirely new substances: carbon dioxide, water, and sodium acetate. The composition of the materials involved is altered in a chemical change, setting it apart from mere alterations in state or appearance.

Physical and Chemical Changes

To delve deeper into these concepts, let's explore some everyday scenarios that exemplify physical and chemical changes.

One common example of a chemical change is the rusting of iron. Over time, when iron is exposed to both air and moisture, it undergoes a transformation into iron oxide, commonly ble and dramatically

changes the appeara change.

Another familia wood. As wood unde in the formation of catransforms into these

In conclusion, c chemical changes en within our surroundi

light. The changes ok

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ble and dramatically e of a chemical

the burning of
n in the air, resulting
wood itself
release of heat and
I reaction.

n physical and ic interactions of

chemical reactions, these changes are the language through which substances communicate their transformations. By exploring and acknowledging these phenomena, we gain valuable insights into the nature of matter itself..

Physical and Chemical Changes

Answer the following questions based on your understanding of the passage.

- 1) What characterizes a physical change?
 - a) the formation of new substances
 - b) a modification in the appearance or state of a substance
 - c) both a and b
- 2) During a chemical c
 - a) yes
 - b) no
 - c) occasionally
- 3) Boiling water is an e
 - a) physical change
 - b) chemical chang
 - c) neither
- 4) Give an example of

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into new substances?

Describe a physical change you have observed in your daily life.

Physical and Chemical Changes

6) Give any two examples of a chemical change.

7) How does rusting of iron exemplify a chemical change?

8) Can a physical chan

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9) What happens to th

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10) In the reaction betw substances being fo

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indications of new