

Identify the changes. Write PHYSICAL or CHEMICAL.



Complete the text about chemical changes using the words in the box:

transformed      reaction      irreversible      properties

When two substances combine in a chemical \_\_\_\_\_, a new substance is produced. This new substance has different \_\_\_\_\_ from the substances that combine to produce it. The new substance cannot be \_\_\_\_\_ back into its original components either. This is because a chemical reaction is an \_\_\_\_\_ change.

Choose the correct option in each sentence.

- Chemical changes are \_\_\_\_\_ changes to substances.
  - reversible
  - irreversible
- The process in which two or more substances combine chemically is a \_\_\_\_\_.
  - reaction
  - combination
- The reactions that produce thermal energy are called \_\_\_\_\_.
  - exothermic
  - endothermic
- Combustion produces thermal, light, sound energy and also \_\_\_\_\_.
  - other substances
  - sulphur and ice
- Combustion can cause many problems, such as global warming or \_\_\_\_\_.
  - oxidation
  - acid rain



Complete the definitions:

a) An endothermic reaction is a chemical reaction that absorbs \_\_\_\_\_.

b) An exothermic reaction is a chemical reaction that \_\_\_\_\_ thermal \_\_\_\_\_.

c) Combustion is a chemical reaction in which \_\_\_\_\_ and \_\_\_\_\_ combine. \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_ are produced during combustion.