

Placement Chemistry

Name: _____

Date: _____

Short Answer

Answer the following questions about the periodic table of elements.
Write your answers in the space provided.

1) Balance the following chemical equation: $\underline{\quad} \text{H}_2 + \underline{\quad} \text{O}_2 \rightarrow \underline{\quad} \text{H}_2\text{O}$

2) Explain what happens during a chemical reaction in terms of bonds.

3) How many electrons does a carbon atom have in its outermost shell?

4) What is the Law of Conservation of Mass?

5) Identify whether the following compound is ionic or covalent: CO_2
(Carbon dioxide).

True or False

Read each statement carefully.
Write "True" if the statement is correct or "False" if it is incorrect.

1) In an exothermic reaction, heat is absorbed by the system.

2) In the periodic table, elements in the same group have similar chemical properties.

3) The atomic number of an element represents the number of protons in its nucleus.

4) A catalyst slows down the rate of a chemical reaction.

5) Acids have a pH less than 7, and bases have a pH greater than 7.