**Subject:** Chemistry

**Name: Worksheet:** Chemical reactions

**Date: Grade 6CS -ALL Sections**

**Question One:**

Fill in the missing words from these equations:

1. \_\_\_\_\_\_\_\_\_\_\_\_\_ + Oxygen Carbon dioxide
2. Calcium + Oxygen \_\_\_\_\_\_\_\_\_\_\_\_\_ oxide
3. sodium + \_\_\_\_\_\_\_\_\_\_\_\_\_ Sodium oxide

**Question Two:**

The table shows the names and chemical formulas of some compounds. Fill in the blank spaces in this table.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of compound** | **Chemical formula** | **Number of elements in the compound** | **Names of elements in the compound** |
|  | MgO |  |  |
|  | K2O |  |  |
|  | FeS |  |  |
|  | KOH |  |  |
|  | CaCO3 |  |  |

**Question Three:**

Read the descriptions of some chemical reactions below.

In each case state what type of chemical reaction it is and write a word equation for it.

1. **Iron reacts with oxygen and water to make hydrated iron oxide.**

Type:

Word equation:

1. **Copper reacts with carbon dioxide to make copper carbonate.**

Type:

Word equation:

1. **Copper oxide reacts with sulfuric acid to make copper sulfate and water.**

Type:

Word equation:

1. **Silver reacts with hydrogen sulfide to make silver sulfide.**

Type:

Word equation:

1. **Magnesium reacts with oxygen to form magnesium oxide.**

Type:

Word equation:

**Question Four:**

For each of the following reactions below:

Circle the reactants and underline the products.

Complete the word equation for each reaction.

**Reaction One:**

Lana reacted a lump of calcium carbonate with some sulfuric acid. Two of the products formed were water and calcium sulfate. The other product formed was a gas that turned lime water milky.

calcium carbonate +\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_ +carbon dioxide

**Reaction Two:**

When Katerina dropped a lump of magnesium into a test tube of hydrochloric acid, the chemical magnesium chloride was formed. Katerina also noticed a gas being formed. When a lit splint was placed in the gas it made a squeaky ‘pop’ sound.

\_\_\_\_\_\_\_\_\_\_\_ + magnesium magnesium chloride + \_\_\_\_\_\_\_\_\_\_

**Question Five:**

Circle the correct answer.

1. The following are chemical changes except:
2. Burning coal
3. Cutting a piece of bread
4. Bubbles form
5. Which of the following is not a sign that a chemical reaction is taking place?
6. Change in shape
7. A change in color
8. Bubbles form
9. When two substances react and produce one substance with new properties, it is a\_\_\_\_\_\_\_\_\_.
10. Synthesis
11. Corrosion
12. Physical reaction