



Subject: Chemistry

Name:

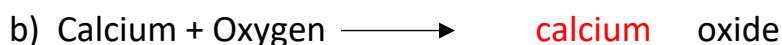
Worksheet: Chemical reactions

Date:

Grade 6CS -ALL Sections

Question One:

Fill in the missing words from these equations:



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
Magnesium oxide	MgO	2	Magnesium, oxygen
Potassium oxide	K ₂ O	2	Potassium, oxygen
Iron sulfide	FeS	2	Iron, sulfur
Potassium hydroxide	KOH	3	Potassium, oxygen and hydrogen
Calcium carbonate	CaCO ₃	3	Calcium, carbon and oxygen





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.

a) Iron reacts with oxygen and water to make hydrated iron oxide.

Type: **Iron corrosion (rusting)**

Word equation: **Iron + oxygen + water \longrightarrow hydrated iron oxide**

b) Copper reacts with carbon dioxide to make copper carbonate.

Type: **Copper corrosion**

Word equation: **copper + carbon dioxide \longrightarrow copper carbonate**

c) Copper oxide reacts with sulfuric acid to make copper sulfate and water.

Type: **Neutralization , acid reaction**

Word equation: **Copper oxide + sulfuric acid \longrightarrow copper sulfate + water**

d) Silver reacts with hydrogen sulfide to make silver sulfide.

Type: **Silver corrosion**

Word equation: **silver + hydrogen sulfide \longrightarrow silver sulfide**

e) Magnesium reacts with oxygen to form magnesium oxide.

Type: **Oxidation**

Word equation: **Magnesium + oxygen \longrightarrow magnesium oxide**





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 + sulfuric acid \longrightarrow calcium sulfate + water + 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.

hydrochloric acid + magnesium \longrightarrow magnesium chloride + hydrogen gas





Question Five:

Circle the correct answer.

1. The following are chemical changes except:
 - a) Burning coal
 - b) Cutting a piece of bread
 - c) Bubbles form

2. Which of the following is not a sign that a chemical reaction is taking place?
 - a) Change in shape
 - b) A change in color
 - c) Bubbles form

3. When two substances react and produce one substance with new properties, it is a _____.
 - a) Synthesis
 - b) Corrosion
 - c) Physical reaction

