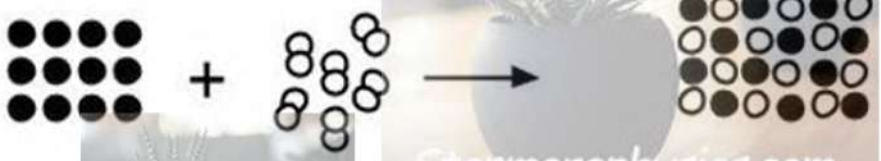
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KWAZULU-NATAL PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

NATURAL SCIENCES GRADE 8
TERM 2 TOPIC TEST NO. 4
Topic: Chemical Reaction
Marks: 20 **Time:** 20 minutes

QUESTION 1

A chemical reaction is represented by the following diagram:



$Mg + O_2 \rightarrow MgO$

1. In your own words define the term chemical reaction. (1)
2. Write the name of the product(s) for this reaction. (1)
3. Describe in which way the atoms in this reaction are the same before and after the reaction. (2)
4. Describe in which way the atoms in this reaction differ before and after the reaction. (2)
5. In which phase does the product occur? Give a reason for your answer visible in the diagram. (2)
6. Write a word equation of the above chemical reaction. (3)

Atoms of oxygen, hydrogen and carbon are represented by the following symbols:



7. Use the above symbols to draw the following:
   Carbon + oxygen gas > carbon dioxide (4)

Total Marks **[15]**

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KWAZULU-NATAL PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

NATURAL SCIENCES GRADE 8
TERM 2 TOPIC TEST NO. 4 MEMORANDUM
Topic: Chemical Reaction
Marks: 20 **Time:** 20 minutes

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QUESTION 1

1. Chemical reactions occur when two or more substances interact to form new substances with different properties. ✓ (1)

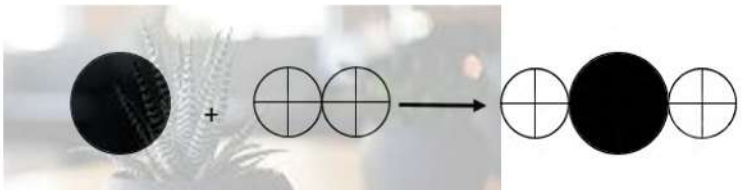
2. magnesium oxide✓ (1)

3. The same amount of atoms before ✓ and after the reaction. ✓ (2)

4. Before the reaction, all the magnesium atoms were bonded with each other, and all the oxygen atoms were bonded with each other. ✓ After the reaction the magnesium atoms have bonded with the oxygen atoms. ✓ (2)

5. solid phase✓ Particles are close together (attracted to each other) ✓ (2)

6. Magnesium ✓+ Oxygen✓ (gas) -> magnesium oxide ✓ (3)

7. 

- Carbon ✓
- Oxygen (two atoms) ✓✓
- Carbon dioxide ✓

(4)

Total Marks **[15]**