

**ARENA PARK SECONDARY SCHOOL
NATURAL SCIENCE GRADE 9 – WEEK FOUR
MISS. S. RAMGOBIN**

Instructions

- Stick worksheet in Grade 9 Natural Science Books
- Answer **ALL** questions in Grade 9 **EXAM FEVER WORKBOOK** on chapter 2, Matter and Materials

TOPIC – CHEMICAL REACTIONS

There are a number of different ways to represent chemical equations:

- With models and pictures (in submicroscopic representations);
 - with symbols and formulae (in chemical equations); and
 - with words (in word equations).
- Numbers are used in two different ways in chemical equations:
- Coefficients in front of chemical formulae indicate the numbers of atoms or molecules of a specific type that take part in the reaction; and
 - Subscripts inside chemical formulae indicate the number of atoms of a specific type in that particular compound.
- Chemical reactions happen when atoms in compounds rearrange; no atoms are lost or gained during a chemical reaction.
- In a balanced equation equal numbers of the same kinds of atoms are on opposite sides of the reaction equation.

REVIEW QUESTIONS

1. Why can we not change the subscripts in the formulas of reactants and products when we want to balance an equation? [2 marks]
2. Write the balanced chemical equation between carbon and oxygen to form carbon dioxide. [1 mark]
3. Write the balanced chemical equation between hydrogen and oxygen to form water. [1 mark]

Grade9 Natural Science Exemplar 2014

Tao Wei



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