



### 3<sup>rd</sup> Term – Revision Exercises

Study by filling in the blanks.

There are two types of changes that take place in matter: physical changes and chemical changes.

- **Physical changes** - The composition of a substance does not change, only the structure of the existing particles/existing nature changes.

Eg - 1. Separating a paper into small pieces.  
 2. ....  
 3. ....

- **Chemical changes** - Changing the composition of a substance to form a new substance.

Eg - 1. When a sheet of paper is burned, a new substance, ash and smoke, is formed.  
 2. ....  
 3. ....

- There is evidence to confirm that a chemical reaction took place.

They are -

1. Heating
2. Effervescence
3. ....
4. ....
5. ....

The substances taking part in a chemical change are called the **reactants**. The new substances produced by a chemical changes are known as the **products**.

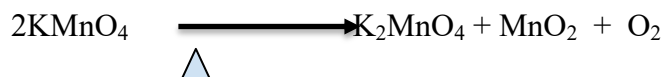


- Complete the table given by considering the following tests.

Test number 1 - When a piece of Magnesium tape is held in a pair of tongs and burned, it glows with bright flame. Finally a white powder remained.



Test number 2 - A small amount of purple Potassium permanganate cubes is heated in a boiling tube, and when a glowing splint is inserted to the tube, it glows brightly.



Test number 3 - When a piece of Zinc is added to a blue Copper sulphate solution, the previous blue color gradually decreases to brown.



Test number 4 - When a little Barium chloride solution is taken into a test tube and a little Sodium sulphate solution is added into it, a white precipitate is obtained.



Test	Nature of the reactants	Nature of the products
Number 1	Silvery white metal.	A white powder.
Number 2		
Number 3		
Number 4		

- Select the appropriate test number above and fill in the blanks.
  - Test number.....is a chemical decomposition reaction.
  - Test number..... is an example of a chemical combination reaction.
  - The single displacement reaction is test number.....
  - An example of a double displacement reaction is test number .....