CHEMICAL REACTIONS

By the end of this topic you should be able to

1. State that in all chemical reactions a new substance is made
2. State that chemical reactions can be identified by changes in colour, a gas being produced, a solid (Precipitate) being produced from clear solutions, heat given out or taken in
3. Give an everyday example of a chemical reaction
4. Explain the difference between a chemical change and a physical change
5. ***State what the collision theory is***
6. State how changes in particle size, concentration , temperature effect speed of reaction and presence of a catalyst
7. Define and give an example of a catalyst
8. ***Explain how changes in particle size, concentration and temperature effect speed of reaction in terms of collision theory***
9. ***Draw line graphs from collected data from following the course of a reaction***
10. ***Interpret graphs in terms the end point of the reaction, steepness of slope, effect of changing conditions on the slope of the graph produced***
11. ***Calculate the AVERAGE RATE of a reaction using the formula***

$$\frac{\textit{Change in quantity}}{\textit{Change in time}}$$