

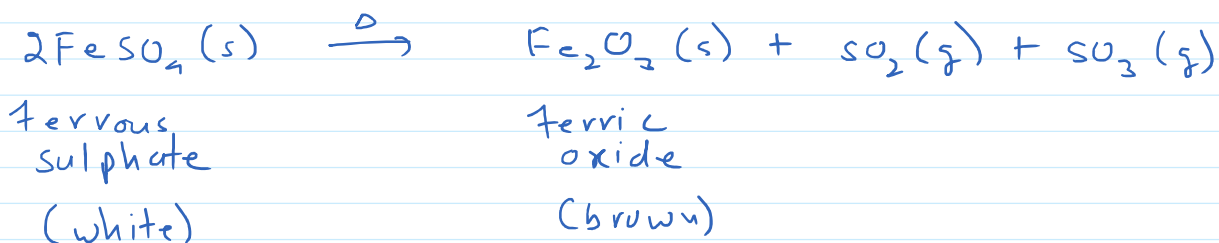
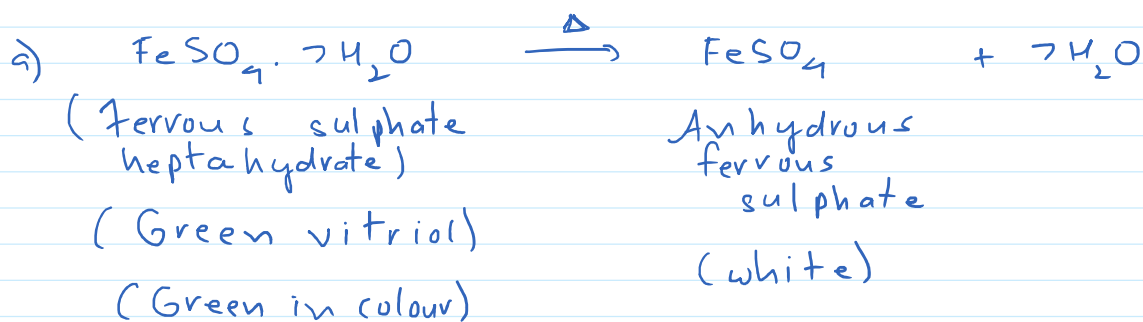
Decomposition Reaction

The reaction in which a compound splits up into two or more simpler substances are known as decomposition reactions.

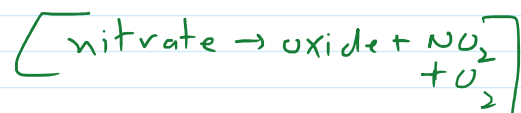
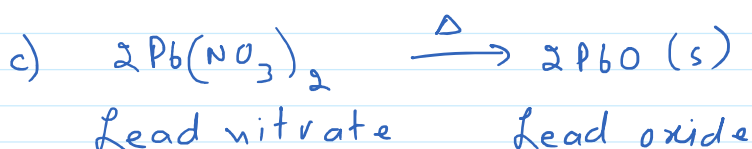
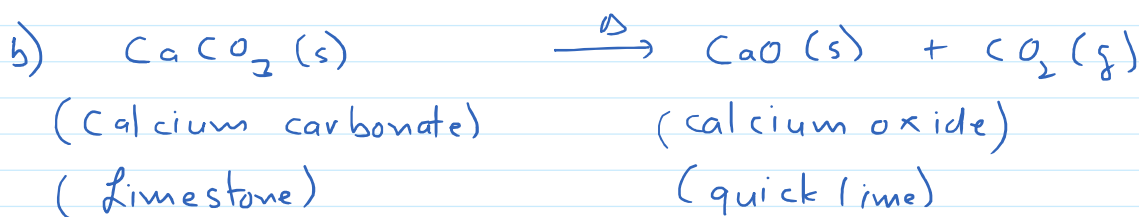
Types of decomposition reactions:

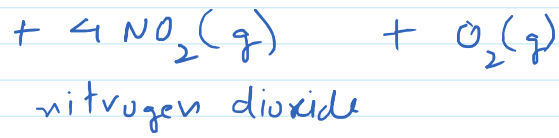
i) Thermal decomposition

When decomposition is carried out through heating eq:



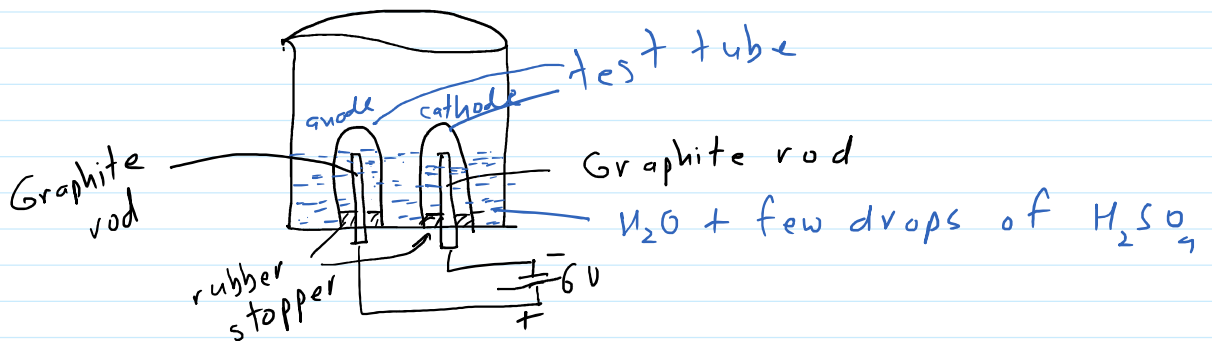
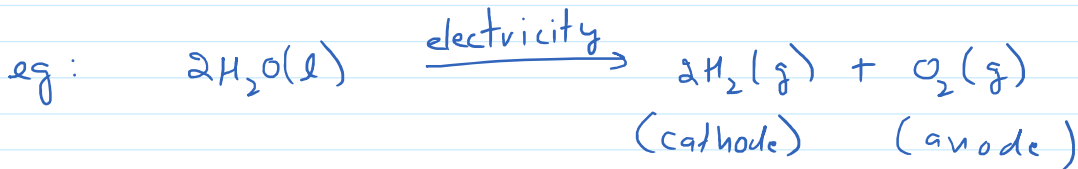
In this reaction characteristic odour of burning sulphur is obtained.





ii) Electrolysis

Decomposition is carried out by passing electricity.

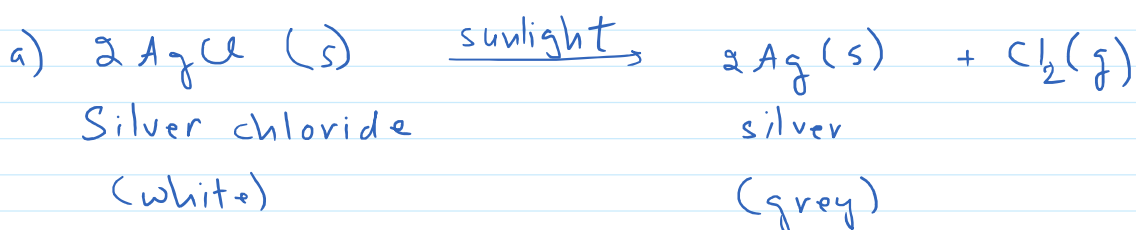


Observations:

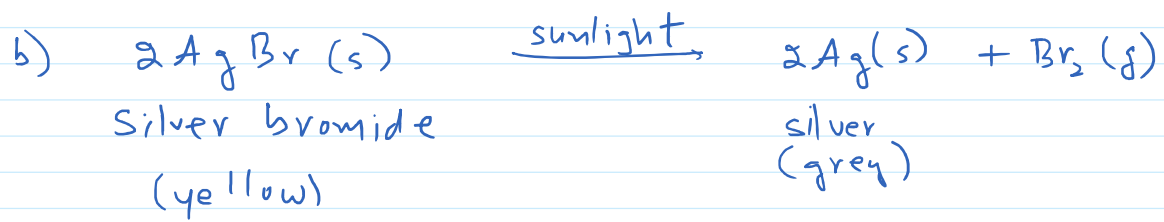
- i) The volume of gas collected at the cathode is double the volume of the gas collected at anode.
- ii) When a glowing splinter is brought near the gas collected at cathode, it burns with a pop sound indicating that the gas is hydrogen.
- iii) When glowing splinter is brought near the gas collected at anode, it burns with more intensity indicating that the gas is oxygen.

iii) Photolysis

Decomposition is carried out using light.



When silver chloride is placed in sunlight its colour changes from white to grey.



This reaction is used in black and white photography.