The Nature of Matter(Classification of matter)

Summary

- 1. Matter can be classified into pure substances and mixtures.
- 2. Pure substances can be classified into elements and compounds.
- 3. An element is a pure substance which cannot be further broken into two or more pure substances by any chemical means.
- 4. There are about 118 different elements known which can be classified as metals, non metals, metalloids and inert gases.
- 5. J.J.Berzelius introduced the modern system of naming elements by their symbols. Two elements cannot have the same symbol. The symbol is derived from either the English name or Latin name.
- 6. Compounds are pure substances formed by the combination of two or more elements in a fixed proportion by weight.
- 7. Compounds have definite physical and chemical properties which are entirely different from the constituent elements.