

Revision Notes

Class 11 Chemistry

Chapter 3 – Classification of Elements and Periodicity in Properties

Introduction

A periodic table is a table that organises all known elements into groups based on their properties, with like elements grouped together in the same vertical column and dissimilar elements separated.

Historical Development of Periodic Table

The atomic weights of the elements were used in all previous attempts to classify them.

Dobereiner's Triads

Dobereiner defined triads as groups of three elements in 1829. A triad's chemical characteristics were comparable. The atomic weight of the middle element was found to be approximately equal to the arithmetic mean of the other two elements when the elements in a trio were ordered in order of increasing atomic weights.

Triad	Iron	Cobalt	Nickel	Mean of 1 st and 3 rd
Atomic weight	55.85	58.93	58.71	Atomic weights are nearly the same.
Triad	Lithium	Sodium	Potassium	$\frac{7 + 39}{2} = 23$
Atomic Weight	7	23	39	
Triad	Chlorine	Bromine	Iodine	$\frac{35.5 + 127}{2} = 81.25$

Modern Chemistry Chapter 3 Notes

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