

Class XI Physics NOTES

S.No.	Name of Physicist	Year	Achievement in unification
1.	Isaac Newton	1687	Unified terrestrial and celestial mechanics
2.	Harris Christian Oersted	1820	Electric and magnetic phenomena are inseparable aspects
3.	Michael Faraday	1830	of a unified domain: electromagnetism
4.	James Clerk Maxwell	1873	Unified electricity, magnetism and optics; showed that light is an electromagnetic wave.
5.	Sheldon Glashow, Abdus Salam, Steven Weinberg	1979	Weak nuclear forces and the electromagnetic force could be viewed as different aspects of a single electro-weak force.
6.	Carlo Rubia, Simon Vander Meer	1984	Verified experimentally the prediction of the theory of electroweak forces.

Nature of Physical Laws

Any physical phenomenon is governed by a number of factors (quantities), several of these quantities may change with time. But a remarkable fact is that there are some special physical quantities which remain constant in time. These are called the conserved quantities of nature. Understanding the conservation principles is