

**FOCUSED TOPIC OF SCIENCE
CLASS IX**

Ch.No.	CLASS IX
2	<ul style="list-style-type: none"> • Mixtures –properties and their types. Heterogeneous (suspension and colloids) and homogenous (solution). • Mixture and Compounds (differences).
3	<ul style="list-style-type: none"> • Laws of constant proportions and conservation of mass, • Atomic and molecular masses calculation. • Writing chemical formula of common compounds.
4	<ul style="list-style-type: none"> • Electrons, protons and neutrons (representation, properties and relation) • Valency (electronic configuration 1 to 20 elements) • Isotopes and Isobars(definitions and uses)
5	<ul style="list-style-type: none"> • prokaryotic and eukaryotic cells(difference and diagram) • nature of cell membrane and cell wall • Functions of chloroplast, mitochondria, vacuoles, endoplasmic reticulum, Golgi apparatus; nucleus, DNA, RNA chromosomes – number. • Types of cell division and their role.
6	<ul style="list-style-type: none"> • Meristematic tissue (location and function) • Xylem and phloem-(structure, differences and function) • Animal tissues –connective (blood) and nervous tissue.
8	<ul style="list-style-type: none"> • Distance and displacement • Velocity, acceleration (uniform and non-uniform motion along a straight line); • Distance-time and velocity-time graphs for uniform motion and uniformly accelerated motion • 3 equations of motion and direct related numerical.
9	<ul style="list-style-type: none"> • Force and Motion, • Newton's Laws of Motion (3 laws with application) • Forces, Inertia and mass relation, Momentum .
10	<ul style="list-style-type: none"> • Universal Law of Gravitation, • Acceleration due to Gravity; • Mass and Weight(earth and moon); • Difference between G and g
11	<ul style="list-style-type: none"> • Work, Energy, power (definition, formula, units and numerical) • Kinetic and Potential energy(definition, formula, units and numerical) • Law of conservation of energy (energy transformation examples).
13	<ul style="list-style-type: none"> • Health and diseases(definition) • Infectious and Non-infectious diseases, their causes. • Diseases caused by microbes (Virus, Bacteria and Protozoans) and their agent or vector; • Principles of treatment and prevention (vaccination/immunization).