

**CBSE · CLASS 9**

Science

Secondary curriculum covering atomic theory, laws of chemical combination, Newtonian mechanics, work & energy, cellular organization, and plant/animal tissues.

Board: Central Board of Secondary Education**Theory:** 80 Marks**Internal/Practical:** 20 Marks**Exam Duration:** 3 Hours

UNIT-WISE SYLLABUS & MARKS BREAKDOWN

UNIT	CHAPTERS & PRESCRIBED TOPICS	MARKS
Unit I	Matter — Its Nature and Behaviour Matter in Our Surroundings (States of matter, evaporation, latent heat), Is Matter Around Us Pure (Mixtures, solutions, colloids, separation), Atoms and Molecules (Laws of chemical combination, chemical formula, molecular mass), Structure of Atom (Electrons, protons, neutrons, isotopes, isobars, valency)	25
Unit II	Organization in the Living World Cell — Basic Unit of Life (Prokaryotic & eukaryotic cells, cell membrane, organelles), Tissues (Meristematic & permanent tissues in plants; Epithelial, connective, muscular, nervous tissues in animals)	22
Unit III	Motion, Force and Work Motion (Distance, displacement, velocity, acceleration, uniform circular motion, equations of motion), Force and Newton's Laws of Motion (Inertia, momentum, $F=ma$, action-reaction), Gravitation (Universal law of gravitation, free fall, mass vs weight, thrust & pressure, Archimedes' Principle), Work and Energy (Kinetic & potential energy, law of conservation of energy), Sound (Propagation, wavelength, frequency, speed, echo, human ear structure)	27
Unit IV	Food Production Improvement in Food Resources (Crop production management, crop protection, animal husbandry, poultry, fish farming, apiculture)	06

INTERNAL / PRACTICAL ASSESSMENT SCHEME (20 MARKS)

EVALUATION COMPONENT	MARKS WEIGHTAGE
Periodic Tests Written evaluations conducted over 3 terms	05 Marks
Multiple Assessments Quizzes, concept maps, group discussions	05 Marks
Practical Lab Work Hands-on experiments (e.g. onion peel, melting point, Newton's 2nd law)	05 Marks

EVALUATION COMPONENT	MARKS WEIGHTAGE
Portfolio Classwork notebook maintenance, assignments	05 Marks

RECOMMENDED REFERENCE LITERATURE

Prescribed Textbooks: NCERT Science Class 9, NCERT Laboratory Manual, Excellence Science Problem Banks

The Excellence Tuition Edge

Every unit in this curriculum is taught with structured conceptual lectures, followed by weekly speed-testing, detailed mistake analysis, and dedicated 1:1 doubt-clearing sessions to build board exam confidence.

Excellence Tuition Centres: Sarsuna (Opp. High School) · Joka · Chatterjee Para (Behala)

Admissions & Inquiries: +91 89022 70803 · excellence-tuition.vercel.app