



WB BOARD

CLASS 9

SCIENCE

Class 9 Physical Science & Environment

Physical Science syllabus based on WBBSE curriculum: Measurement (SI units, vernier calipers); Force and Motion (equations of motion, Newton's laws); Atomic Structure & Matter (Bohr model, fluid pressure, surface tension, Bernoulli's theorem); Solutions & Acids; Work, Power, Energy; Sound; Heat.

GOVERNING BOARD
WB Board

THEORY EXAMINATION
90 Marks

INTERNAL / PRACTICAL
10 Marks (IFE)

EXAM DURATION
3 Hours

UNIT-WISE SYLLABUS & MARKS BREAKDOWN

UNIT	CHAPTERS & PRESCRIBED TOPICS	MARKS
Unit 1	Porimap (Measurement) Fundamental & derived units, dimensions, vernier calipers, screw gauge, physical balance	08
Unit 2	Bol o Goti (Force and Motion) Scalars/vectors, equations of motion ($v=u+at$, $s=ut+\frac{1}{2}at^2$, $v^2=u^2+2as$), Newton's laws, momentum conservation	15
Unit 3	Poromanur Gothon o Podarther Dhormo Atomic models (Thomson, Rutherford, Bohr), electronic configuration; Fluid pressure, Archimedes principle, surface tension, viscosity, Hooke's law	18
Unit 4	Drobôn, Amlô, Kharôk o Lôbôn (Solutions & Acids) True solutions, colloids, solubility curves; Arrhenius acid-base theory, pH scale, neutralization	14
Unit 5	Karjô, Khômota, Shôkti o Shôbdo (Work, Energy & Sound) Work done, KE and PE, conservation of energy; Sound wave characteristics, echo, reverberation, ultrasound	18
Unit 6	Tap o Mishrer Prithokkikaran (Heat & Separation) Calorimetry, specific heat, latent heat; Distillation, fractional distillation, separating funnel, chromatography	17

INTERNAL / PRACTICAL ASSESSMENT SCHEME (10 MARKS (IFE))

EVALUATION COMPONENT	MARKS WEIGHTAGE
Written Annual Exam Group A (MCQ: 15), Group B (VSA: 21), Group C (SA: 18), Group D (LA: 36)	90 Marks
IFE Component School project / lab experiment write-up	10 Marks

RECOMMENDED REFERENCE LITERATURE

Prescribed Textbooks: Bhouto Bigyan o Poribesh 9 (WBBSE), Santra Publication, Excellence Science Revision Guides

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