



CBSE

CLASS 8

SCIENCE

Class 8 Science

Rigorous grade 8 science curriculum focusing on crop production, microorganisms, fossil fuels, cell structure, human endocrine changes, fluid pressure, sound waves, and chemical effects of electricity.

GOVERNING BOARD
CBSE

THEORY EXAMINATION
80 Marks

INTERNAL / PRACTICAL
20 Marks

EXAM DURATION
2½ Hours

UNIT-WISE SYLLABUS & MARKS BREAKDOWN

UNIT	CHAPTERS & PRESCRIBED TOPICS	MARKS
Chapter 1	Crop Production and Management Agricultural practices, soil prep, sowing, manure, fertilisers, irrigation, protection, harvesting, storage	08
Chapter 2	Microorganisms: Friend and Foe Classification (bacteria, fungi, protozoa, algae, viruses), food preservation, nitrogen cycle	08
Chapter 3	Coal and Petroleum Exhaustible natural resources, coal, coal tar, coal gas, petroleum refining, petrochemicals	06
Chapter 4	Combustion and Flame Combustion conditions, ignition temperature, inflammable substances, types of combustion, flame structure	08
Chapter 5	Conservation of Plants and Animals Deforestation, flora and fauna, endemic species, wildlife sanctuaries, national parks, biosphere reserves, Red Data Book	06
Chapter 6	Reproduction in Animals Modes of reproduction, sexual reproduction, male & female reproductive systems, fertilisation, IVF, asexual reproduction (budding, binary fission)	10
Chapter 7	Reaching the Age of Adolescence Puberty changes, secondary sexual characteristics, hormones, reproductive health	08
Chapter 8	Force and Pressure Contact and non-contact forces, pressure exerted by liquids and gases, atmospheric pressure	10
Chapter 9	Friction Factors affecting friction, static and sliding friction, rolling friction, fluid friction (drag)	08
Chapter 10	Sound Vibrating bodies, human voice box (larynx), propagation medium, amplitude, frequency, pitch, noise pollution	08

INTERNAL / PRACTICAL ASSESSMENT SCHEME (20 MARKS)

EVALUATION COMPONENT	MARKS WEIGHTAGE
Continuous Assessments Periodic chapter exams and objective tests	10 Marks
Practical Science Journal Experiment write-ups, science project model, viva	10 Marks

RECOMMENDED REFERENCE LITERATURE

Prescribed Textbooks: NCERT Science Class 8, Excellence Science Workbook

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](#)