



CBSE

CLASS 7

SCIENCE

Class 7 Science

Middle school science building systematic analytical enquiry into plant and animal nutrition, heat transfer, chemical change, cellular respiration, transportation, reproduction, and electrical circuits.

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	Nutrition in Plants Autotrophic nutrition, photosynthesis mechanism, heterotrophic plants (parasitic, saprophytic, insectivorous)	08
Chapter 2	Nutrition in Animals Human digestive system, teeth, digestion in ruminants, feeding and digestion in amoeba	08
Chapter 3	Heat Hot and cold objects, measuring temperature, clinical and lab thermometers, conduction, convection, radiation	08
Chapter 4	Acids, Bases and Salts Natural indicators (litmus, turmeric, China rose), neutralization in everyday life, salt formation	08
Chapter 5	Physical and Chemical Changes Differences between physical and chemical changes, rusting of iron, crystallisation of copper sulphate	08
Chapter 6	Respiration in Organisms Aerobic vs anaerobic respiration, human respiratory system, breathing in other animals (cockroach, earthworm, fish)	08
Chapter 7	Transportation in Animals and Plants Human circulatory system, blood, heart, excretion in humans, transport of water and nutrients in plants	08
Chapter 8	Reproduction in Plants Asexual reproduction (vegetative propagation, budding, fragmentation, spore formation), sexual reproduction (pollination, seed dispersal)	08
Chapter 9	Motion and Time Slow or fast motion, speed formula, measurement of time, simple pendulum, distance-time graphs	08
Chapter 10	Electric Current and its Effects Symbols of electric components, heating effect of electric current, electric fuse, magnetic effect, electromagnets	08

INTERNAL / PRACTICAL ASSESSMENT SCHEME (20 MARKS)

EVALUATION COMPONENT	MARKS WEIGHTAGE
Periodic Written Assessments Pen-paper unit examinations across academic terms	10 Marks
Science Journal & Lab Activities NCERT lab manual experiments and viva	10 Marks

RECOMMENDED REFERENCE LITERATURE

Prescribed Textbooks: NCERT Science Class 7, Excellence Foundational Problem Sets

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.