

CLASS 10 SCIENCE

Boards 2027 Practice Checklist

What to practise chapter-by-chapter - based on the official CBSE Class X Science (086) 2026-27 curriculum and the official 2026-27 Sample Question Paper.

Theory 80 marks	Internal Assessment 20 marks	Time 3 hours
Knowledge & understanding 50%	Application 30%	Analyse / evaluate / create 20%

How to use this checklist

1. Pick 1 chapter. 2. Attempt the listed question types without notes. 3. Mark what you could not recall or apply. 4. Fix that exact gap. 5. Attempt a fresh question.

Important: This is a practice checklist, not a prediction of the 2027 board paper. CBSE can ask any content within the prescribed syllabus and question design.

Stop re-reading. Start remembering.

1. Know the 2026-27 exam map

CBSE's official 2026-27 Science curriculum assigns the 80 theory marks across 5 units as follows.

Unit	Area	Marks
I	Chemical Substances - Nature and Behaviour	25
II	World of Living	25
III	Natural Phenomena	12
IV	Effects of Current	13
V	Natural Resources	5

Official question-design signals

Prepare for objective/VSA, Assertion-Reason, Short Answer, Long Answer, source/case/passages-based and integrated questions. CBSE also states that about 33% internal choice may be provided.

The official 2026-27 SQP has 39 questions in 3 sections: Biology, Chemistry and Physics. It explicitly says there is no change in the Question Paper Design and Assessment Pattern for 2026-27.

What this means: Do not prepare only definitions. Your practice should include calculations, observations, reasons, diagrams, experimental situations, data/case interpretation and multi-step application.

Chemical Reactions and Equations

Know these:

- chemical reactions and equations
- balancing equations
- combination, decomposition, displacement and double displacement
- precipitation; endothermic/exothermic; oxidation and reduction

Practise these question types:

- ☐ balance / correct a chemical equation
- ☐ identify and justify the reaction type
- ☐ predict products or observations
- ☐ oxidation-reduction reasoning
- ☐ experiment/observation-based question
- ☐ 3-5 mark analysis involving multiple reactions

The 2026-27 official SQP includes redox reasoning, correcting chemical equations, decomposition and observation-based reaction questions.

Acids, Bases and Salts

Know these:

- H^+ / OH^- idea; indicators and chemical properties
- neutralisation and pH in everyday life
- NaOH, bleaching powder, baking soda, washing soda, Plaster of Paris

Practise these question types:

- ☐ indicator / pH interpretation
- ☐ reaction with metals/carbonates
- ☐ reason-based everyday pH question
- ☐ preparation/use question
- ☐ case-based application
- ☐ equation + observation

Metals and Non-metals

Know these:

- physical/chemical properties
- reactivity series
- ionic compounds
- basic metallurgy
- corrosion and prevention

Practise these question types:

- ☐ reactivity/displacement prediction
- ☐ ionic compound property reasoning
- ☐ corrosion situation + prevention
- ☐ experimental data interpretation
- ☐ extraction/metallurgy sequence
- ☐ application-based comparison

The official SQP uses an experiment comparing heat conduction of metals and asks students to interpret the setup/data.

Carbon and its Compounds

Know these:

- covalent bonding
- saturated/unsaturated hydrocarbons; homologous series
- nomenclature and functional groups
- combustion, oxidation, addition and substitution
- ethanol/ethanoic acid; soaps and detergents

Practise these question types:

- ☐ identify/name a compound or functional group
- ☐ write/complete a reaction
- ☐ distinguish saturated vs unsaturated
- ☐ soap/detergent application
- ☐ reasoning around covalent properties
- ☐ multi-step conversion/application

Life Processes

Know these:

- nutrition
- respiration
- transport in plants and animals
- excretion

Practise these question types:

- ☐ process/sequence question
- ☐ structure-function reasoning
- ☐ compare plant vs animal processes
- ☐ experiment-based question
- ☐ diagram/label/application
- ☐ case-based physiological situation

The current SQP includes photosynthesis, respiration, kidney reabsorption and digestion-based application questions.

Control and Coordination

Know these:

- tropic movements and plant hormones
- nervous system
- voluntary, involuntary and reflex actions
- animal hormones

Practise these question types:

- ☐ stimulus-response / tropism reasoning
- ☐ brain/nervous-system function
- ☐ reflex arc concept/diagram
- ☐ hormone-function application
- ☐ compare nervous vs hormonal control
- ☐ case-based coordination question

How do Organisms Reproduce?

Know these:

- asexual and sexual reproduction in plants/animals
- reproductive health
- family planning
- safe sex vs HIV/AIDS
- child bearing and women's health

Practise these question types:

- ☐ identify effect of changing a reproductive structure
- ☐ compare asexual vs sexual reproduction
- ☐ contraception mechanism/application
- ☐ plant reproduction experiment/scenario
- ☐ diagram/sequence
- ☐ reasoning on reproductive health

The current SQP includes emasculation/bagging in flowers and asks what biological event vasectomy/tubectomy prevents.

Heredity

Know these:

- heredity
- Mendel's contribution and inheritance of traits
- sex determination

Practise these question types:

- ☐ Mendelian cross / genotype inference
- ☐ dominant vs recessive reasoning
- ☐ trait inheritance application
- ☐ sex-determination explanation
- ☐ chromosome-number reasoning
- ☐ short/long answer using inheritance logic

Current-syllabus note: Heredity is in the summative syllabus. Evolution is listed separately as formative-only for 2026-27, so do not treat 'Heredity and Evolution' as one fully board-assessed chapter.

Light - Reflection and Refraction

Know these:

- spherical mirrors and image formation
- mirror formula and magnification
- laws of refraction and refractive index
- spherical lenses, lens formula, magnification and power

Practise these question types:

- ☐ ray-diagram interpretation/drawing
- ☐ mirror/lens numerical
- ☐ sign-convention application
- ☐ refractive-index reasoning
- ☐ image nature/position/size
- ☐ experiment or real-life application

The official SQP asks lens/refraction concepts through MCQ, numerical and short-answer formats.

Human Eye, Prism, Dispersion and Scattering

Know these:

- human eye and defects of vision
- correction using lenses
- prism and dispersion
- scattering and daily-life applications

Practise these question types:

- ☐ identify defect + corrective lens
- ☐ explain accommodation/near/far point
- ☐ draw correction diagram
- ☐ dispersion/prism concept
- ☐ scattering/reason question
- ☐ 5-mark multi-part concept question

The official SQP includes a 5-mark option combining eye defects/vision or dispersion/scattering.

Electricity

Know these:

- current and potential difference
- Ohm's law; resistance and resistivity
- series and parallel combinations
- heating effect
- electric power; relationships among P, V, I and R

Practise these question types:

- ☐ V-I-R numerical
- ☐ series/parallel circuit calculation
- ☐ electric power/current numerical
- ☐ Joule heating reasoning
- ☐ resistivity concept
- ☐ circuit-based 3-mark application

The current SQP includes a 1000 W/250 V current MCQ, Joule's law/resistivity short answers, and a resistor-network numerical.

Magnetic Effects of Current

Know these:

- magnetic field and field lines
- field around conductor/coil/solenoid
- force on current-carrying conductor
- Fleming's Left Hand Rule
- DC/AC basics and domestic circuits

Practise these question types:

- ☐ Right-Hand Thumb Rule
- ☐ field-strength reasoning
- ☐ solenoid application
- ☐ current-direction/compass reasoning
- ☐ Fleming's rule application
- ☐ domestic circuit / AC-DC concept

2026-27 caution: Motor, electromagnetic induction and electric generator are explicitly listed as formative-only. The official SQP still assesses magnetic field, solenoid and Right-Hand Thumb Rule concepts.

Our Environment

Know these:

- ecosystem
- environmental problems
- ozone depletion
- waste production and solutions
- biodegradable and non-biodegradable substances

Practise these question types:

- ☐ food-chain/trophic-level MCQ
- ☐ energy-flow reasoning
- ☐ biodegradable vs non-biodegradable application
- ☐ ozone/environmental problem reasoning
- ☐ case-based ecosystem question
- ☐ waste-management solution

The official SQP includes trophic-level and energy-flow questions.

Formative-only topics: know the boundary

CBSE's 2026-27 curriculum specifically marks some content for formative learning rather than year-end summative assessment. That matters when deciding where to spend board-practice time.

Topic	2026-27 treatment
Periodic Classification of Elements	Formative-only
Evolution (acquired/inherited traits, speciation, fossils, etc.)	Formative-only
Motor, Electromagnetic Induction, Electric Generator	Formative-only

Note: The curriculum PDF contains a teacher note whose wording around 'Electric Effects of Electric Current' is internally awkward; for this checklist we follow the detailed syllabus plus the official 2026-27 SQP. The SQP clearly assesses Electricity and magnetic-field/solenoid concepts, while motor/induction/generator are separately identified as formative-only.

Final 7-day practice audit

Use this after you finish the chapter-level checklist. Tick only when you can do it without copying from notes.

- ☐ I can solve objective questions without relying on recognition alone.
- ☐ I can answer Assertion-Reason questions by checking both statements separately.
- ☐ I can write 2-3 mark answers with the exact points/reasoning needed.
- ☐ I can structure a 5-mark answer into clear steps/sub-parts.
- ☐ I can interpret a case, experiment, graph, circuit or unfamiliar real-life situation.
- ☐ I can write and balance required chemical equations accurately.
- ☐ I can solve Electricity and Light numericals with formula, substitution, unit and final answer.
- ☐ I can draw/interpret required ray diagrams and biology/physics diagrams.
- ☐ I can explain 'why' instead of memorising only definitions.
- ☐ I have attempted the official CBSE 2026-27 Science SQP under timed conditions.
- ☐ I have checked my attempt against the official CBSE marking scheme.
- ☐ I have a short list of my recurring mistakes and have re-attempted them.

RevSlay method: Pick a chapter → practise MCQs, case studies and written answers → find the gap → use Ask AI when stuck → attempt again.

Official sources used

- CBSE Class X Science (086) Curriculum 2026-27
- CBSE Class X Science Sample Question Paper 2026-27
- CBSE Class X Science Marking Scheme 2026-27

Verified against CBSE Academic on 5 October 2026.

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