

ANNUAL SYLLABUS (2025-26)

CLASS-9, SUBJECT: SCIENCE (086)

Unit No.	Unit	Marks
I	Matter - Its Nature and Behaviour	25
II	Organization in the Living World	22
III	Motion, Force and Work	27
IV	Food; Food Production	06
	Total	80
	Internal assessment	20
	Grand Total	100

Content

UNIT-I Matter-Nature and Behaviour

Chapter -1: Matter in our surroundings

Definition of Matter; Particulate nature of matter; States of matter: Solid, liquid and gas and their Characteristics, change of state – melting (Absorption of heat), freezing, evaporation (Cooling by evaporation), Condensation, Sublimation.

Practical: Determine the melting point of ice and boiling point of water.

Chapter-2: Is Matter Around Us Pure

Elements, compound and mixtures. Heterogeneous and homogeneous mixtures, colloids and suspensions. Physical and chemical changes (excluding separating the components of a mixture).

Practical : Preparation of

- a) A true solution of common salt, sugar and alum.
- b) A suspension of soil, chalk powder and fine sand in water.
- c) A colloidal solution of starch in water and egg albumin/ milk in water and distinction between these on the basis of
 - transparency
 - filtration criterion
 - stability

Practical: Preparation of a) Mixture and b) A Compound, using iron filings and Sulphur powder and distinction between these on the basis of –

- i) appearance i.e. homogeneity and heterogeneity
- ii) behavior towards a magnet
- iii) behavior towards Carbon disulphide as a solvent
- iv) effect of heat

Practical: Performing the following reactions and classifying them as physical or chemical changes:

- a) Iron with Copper Sulphate solution in water b) Burning of magnesium ribbon in air
- c) Zinc with dilute Sulphuric Acid
- d) Heating of Copper Sulphate Crystals
- e) Sodium Sulphate with Barium Chloride in the form of their Solution in water.

UNIT-II -Organization in the Living World:

Chapter-5: The Fundamental Unit of Life

Cell as a basic unit of life; Prokaryotic and Eukaryotic cells, multicellular organisms, cell membrane and cell wall, cell organelles and cell inclusions; chloroplast, mitochondria, vacuoles, endoplasmic reticulum, Golgi apparatus; nucleus, chromosomes – basic structure, number.

Practical : Preparation of stained temporary mounts of

- a) Onion peel ; b) Human Cheek Cells and to record observations and draw their labeled diagrams.

Chapter- 6: Tissues

Structure and functions of animal and plant tissues (only four types of tissues in animals, Meristematic and Permanent tissues in plants)

Practical: Identification of Parenchyma, Collenchyma and Sclerenchyma tissues in plants, Striped, Smooth and Cardiac muscle fibres and Nerve cells in animals from prepared slides. Draw their labeled diagram.

The following topics are included in the syllabus but will be assessed only formatively to reinforce understanding without adding to summative assessments. This reduces academic stress while ensuring meaningful learning. Schools can integrate these with existing chapters as they align well. Relevant NCERT textual material is enclosed for reference.

Health and Diseases: Health and its failure. Infectious and Non-infectious diseases, their causes and manifestation. Diseases caused by microbes (Virus, Bacteria and Protozoan) and their prevention; Principles of treatment and prevention. Pulse Polio programmes.

UNIT-III – Motion, Force and Work

Chapter-7: Motion

Distance and displacement, velocity, uniform and non-uniform motion along a straight line, acceleration, distance- time and velocity- time graphs for uniform motion and uniformly accelerated motion, elementary idea of uniform circular motion.

Chapter-8: Force and Laws of Motion:

Force and motion, Newton's Laws of Motion, Action and Reaction forces, Inertia of a body, Inertia and mass, Momentum, Force and Acceleration.

The following topic is included in the syllabus but will be assessed only formatively to reinforce understanding without adding to .This reduces academic stress while ensuring meaningful learning. Schools can integrate this with existing chapters as they align well. Relevant NCERT textual material is enclosed for reference.

Elementary idea of conservation of Momentum

UNIT IV-Food Production

Chapter-12:Improvement In Food Resources

Plant and animal breeding and selection for quality improvement and management; Use of fertilizers and manures; Protection from pests and diseases, Organic farming.

Note:

- **The above mid-term syllabus is to be completed by September 06, 2025.**
- **Revision of syllabus for Mid –Term Examination 2025**

Mid –Term Examination 2025

UNIT III – Motion, Force and Work

Chapter-9:Gravitation

Gravitation, Universal law of Gravitation, Force of Gravitation of earth (gravity), Acceleration due to gravity; Mass and weight, Free fall.

Floatation: Thrust and pressure, Archimedes' principle, Buoyancy.

Practical: Determination of the density of solid (denser than water) by using a spring balance and measuring cylinder.

Practical: Establishing the relation between the loss in weight of solid when fully immersed in (a) tap water (b) Strongly salty water with the weight of water displaced by it by taking at least two different solids.

UNIT I – Matter - Its Nature and Behavior

Chapter-3: Atoms And Molecules

Atoms and molecules, Laws of Chemical Combination, Chemical formula of common compounds, Atomic and molecular masses.

Practical: Verification of Law of Conservation of mass in a chemical reaction.

Chapter-4: Structure Of The Atom: Sub-atomic particles: Electrons, Protons and Neutrons , Models of atom, Valency, Chemical formula of common compounds, Atomic Number and Mass Number, Isotopes and Isobars.

UNIT III - Motion, Force and Work

Chapter-10: Work and Energy

Work done by a force, Energy, Power, Kinetic and Potential energy; Law of conservation of energy. (excluding commercial unit of Energy)

Chapter-11: Sound

Nature of sound and its propagation in various media, speed of sound, range of hearing in humans, ultrasound, reflection of sound; Echo.

Practical: Determination of the speed of a pulse propagated through a stretched string / slinky (helical spring).

Practical: Verification of the Laws of reflection of sound.

Note:

- The entire syllabus is to be completed by **January 31, 2026.**
- Revision of entire syllabus for Annual Examination 2026.

➤ **For more information kindly visit to CBSE Academic:**

https://cbseacademic.nic.in/web_material/CurriculumMain26/Sec/Science_Sec_2025-26.pdf

Common Annual School Examination (CASE):2025-26 will be based on the complete syllabus.

Annual Examination(CASE) -2026

Note for the Teachers:

The NCERT text books present information in boxes across the book. These help students to get conceptual clarity. However, the information in these boxes would not be assessed in the year-end examination.

Question Paper Design

Class IX/X (2025-26)

Subject: Science (086)

Theory (80 marks)

Duration :3 Hours

S.No.	Competencies	Total
1.	Demonstrate Knowledge and Understanding	50%
2.	Application of Knowledge/Concepts	30%
3.	Formulate, Analyze, Evaluate and Create	20%

Note:

- **Typology of Questions:** VSA including objective type questions, Assertion – Reasoning type questions; SA; LA; Source-based/ Case-based/ Passage-based/ integrated assessment questions.
 - *An internal choice of approximately 33% would be provided.*

Internal Assessment: (20 Marks)

- Periodic Assessment – 05 marks + 05 marks
 - Subject Enrichment (Practical Work) – 05 marks
 - Portfolio – 05 marks .
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Suggestive verbs for various competencies

- **Demonstrate Knowledge and Understanding:**
State, name, list, identify, define, suggest, describe, outline, summarize, etc.
- **Application of Knowledge/Concepts:**
Calculate, illustrate, show, adapt, explain, distinguish, etc.
- **Formulate, Analyze, Evaluate and Create:**
Interpret, analyze, compare, contrast, examine, evaluate, discuss, construct, etc.