

Syllabus Science

Section-A (Scientific Reasoning)

This section develops scientific research ability in students to explore living world and their surroundings. It enables student to answer vital scientific questions and problems, formulating them clearly and precisely.

- It gathers and assesses relevant scientific data and information, using abstract ideas to interpret them effectively by the students
- As a result students comes to well-reasoned scientific conclusions and solutions, testing them against relevant criteria and standards

Section-B (Everyday science)

This section has been designed keeping in mind the application of science in our day to day life. This enables kid to enter a world of cool science through brain boggling questions.

- This will enable students to be more logical and develop a scientific approach towards various things like reason for day and night, reason for season, why do we feel hungry, why we should follow healthy habits and safety rules etc.

Section-C (Logical reasoning)

This is based on verbal and non- verbal reasoning. Verbal reasoning includes topics like- blood relation, coding- decoding, direction sense test, and number series and alphabet series. This helps in enhancing the collective ability of students to gather, analyze and understand information in the form of words and languages.

Non- verbal reasoning is a problem solving based around pictures, diagrams and shapes rather than word. It includes classification (odd one out), images, matrix, spotting out the embedded figure, clock and calendar. Non-verbal reasoning questions are designed to see how your child can use critical thinking and logic to solve problems.

Syllabus Science (Core)

Grade -2

Chapters Involved

- **Unit-I - Living things and Their Need**
Living and Non- living things, Plants and Animals, Food, Human Body, Housing and Clothing
- **Unit- II - Our Surrounding**

Family and Festivals, Water Air Weather and Season, Occupations and Surroundings, Transportation and Communication, Earth and Universe, Good habits and Safety Rules

- **Unit- III- Geometry**

Lines and Surfaces, Shapes and Patterns

Grade -3

Chapters Involved

- **Unit- I -Our Living World**

Animal around Us, Plant around us, Human Body

- **Unit-II- Nature Love**

Soil, Natural resource, Matter and materials, Earth and the universe

- **Unit-III- Energy**

Light, Sound, Force

Grade -4

Chapters Involved

- **Unit- I- Our Living World**

Animal adaptation, Plant adaptation, Human Body and Food

- **Unit-II- Nature Love**

Matter and materials, Earth and the universe, Our environment

- **Unit-III- Physical Science**

Force and Energy, Measurement

Grade - 5

Chapters Involved

- **Unit- I -Our Living Systems**

Human body and nutrition, Plant bacteria and fungi, Animal Kingdom

- **Unit-II- Nature Love**

Soil rocks and minerals, Natural calamity, Air water and environment

- **Unit-III- Physical and Chemical World**

Work, force energy and simple machine, Light and sound, Matter

Grade - 6

Chapters Involved

- **Unit- I - The living Beings and their Surrounding**
Cells- The building block of life, Plant transport system, Heredity and reproduction, Organisms and their environment, Garbage in garbage out
- **Unit-II- The Phenomenal World**
The electrical system, Light, shadow and reflection, Fun with magnets
- **Unit-III- The Chemical World Around Us**
From fibre to fabric, Sorting and separation of materials

Grade - 7

Chapters Involved

- **Unit- I - The living Beings and their Surrounding**
Nutrition in plants and animals, weather, climate and adaptations of animals to climate, Natural resources and their conservation, Respiration in organism, Reproduction in plants, transportation in plants and animals
- **Unit-II- The Phenomenal World**
Heat, Motion and Time, Electric current and its effect, Light
- **Unit-III- The Chemical World Around Us**
Wind storms and cyclones, Acid bases and salt, physical and chemical changes

Grade - 8

Chapters Involved

- **Unit- I - The living Beings and their Surrounding**
Crop Production and Management, Microorganisms, Conservation of Plants and Animals, Cell-structure and function, Reproduction and endocrine System, Pollution of air and water
- **Unit-II- The Phenomenal World**
Force and Pressure, Friction, Sound, light, some natural phenomenon, chemical effect of electric current
- **Unit-III- The Chemical World around Us**
Synthetic fibres and Plastics, coal and petroleum, metals and non-metals, combustion and flame

Grade - 9

Chapters Involved

- **Unit- I - The living Beings and their Surrounding**
Tissues, Diversity in living organism, Why do we fall ill, Natural Resources, Improvement in Food Resources

- **Unit-II- The Phenomenal World**
Force and law of motion, Gravitation, Work and energy, Sound,
- **Unit-III- The Chemical World around Us**
All about matters, Atoms and molecules,

Grade - 10

Chapters Involved

- **Unit- I - The living Beings and their Surrounding**
Life process, Reproduction in organisms, Heredity and evolution, Our environment and its management
- **Unit-II- The Phenomenal World**
Light- Reflection and Refraction, The physiology of human eye, Magnetic effects of electric Current, Electricity, Sources of energy
- **Unit-III- The Chemical World around Us**
Chemical reactions and equations, Acids, Bases and Salts, metals and non-metals, Carbon and its compounds, Periodic classification of elements

Grade - 11 (Chemistry)

Chapters Involved

- **Unit-I- The experimental Chemistry**
The experimental design, Method of purification and analysis, Identification of ions and gases
- **Unit- II -Atomic Structure and Stoichiometry**
Kinetic Particle theory, Atomic structure, Chemical bonding, Substances and their structure, Formulae stoichiometry and the mole concept, Air and atmosphere
- **Unit-III- Chemical Reactions**
Acid, bases and salt, Redox reactions, Speed of reaction, Electrolysis, Energy from chemicals
- **Unit-IV- The Organic Chemistry**
Organic chemistry, Macromolecules

Grade - 11 (Biology)

Chapters Involved

- **Unit- I -Principles of Biology**
Cell structure and organization, movement of substances, Nutrients, Enzymes
- **Unit-II- The Maintenance and Regulation of Life Process**

Nutrition in humans, Nutrition in Plants, Transport in humans, Transport in Plants, Respiration, Excretion, Homeostasis, Nervous system, Hormones

- **Unit-III- The Continuity of Life**

Reproduction in plants, Reproduction in humans, Cell division, Molecular genetics, inheritance, Organism and their environment

Grade - 11 (Physics)

Chapters Involved

- **Unit-I- Mechanics**

Kinematics, Laws of motion, Gravitation, Rotational motion

- **Unit- II -Change in Physical World**

Properties of matter, Thermodynamics

- **Unit-III- Vibrating Physics**

Simple harmonic motion, Waves and Sound

