

SCIENCE SYLLABUS

Class – 2

2nd Class Science Syllabus – An Overview

For Class 2, the NCERT syllabus for (Science) continues to introduce young learners to basic scientific concepts through a holistic approach. The syllabus integrates science with everyday life, helping children understand their surroundings and the natural world. Below is a detailed breakdown of the topics and sub-topics covered in the NCERT Science syllabus for Class 2, with a focus on the science-related aspects.

Here our chapters for ITSE Examination :-

Chapter 1. My Body

Chapter 2. My Family and Friends

Chapter 3. Plants around us

Chapter 4. Animals around us

Chapter 5. Food and Water

Chapter 6. Shelter and Clothing

Chapter 7. We need air

Chapter 8. Water

Chapter 9. Weather and Seasons

Chapter 10. Safety and First - Aid

Chapter 11 . Our Neighbourhood

Chapter 12 . Transport and Communication

Chapter - 1 (My Body)

Topics and Sub- Topics:

- **Body Parts:**

- Naming and identifying major body parts.
- Understanding the functions of different body parts.

- **Sense Organs:**

- Introduction to the five sense organs (eyes, ears, nose, tongue, skin).
- Functions and importance of each sense organ.
- Simple activities to explore the senses (listening to sounds, feeling textures).

Chapter - 2 (My Family and Friends)

Topics and Sub-topics:

- **Family Members:**

- Different types of families (nuclear, joint).
- Roles and relationships within the family.

- **Friends and Helpers:**

- Importance of friends and friendship.
- Community helpers and their roles (teachers, doctors, fire fighters).

Chapter - 3 (Plants around us)

Topics and Sub-topics:

- **Types of Plants:**

- Various types of plants (trees, shrubs, herbs, climbers, creepers).
- Identifying and classifying common plants in the surroundings.

- **Parts of a Plant:**

- Basic parts of a plant (roots, stem, leaves, flowers, fruits, seeds).
- Functions of each part (roots absorb nutrients, leaves make food).

- **Uses of Plants:**

- Plants as sources of food, medicine, and materials (wood, cotton).
- Importance of plants for the environment (providing oxygen, habitats).

Chapter – 4 (Animals around us)

Topics and Sub-topics:

- **Types of Animals:**

- Domestic animals (pets, farm animals) and wild animals.
- Identifying different animals and their habitats.

- **Animal Behavior:**

- How animals move (walking, flying, swimming).
- Animal sounds and communication.

- **Uses of Animals:**

- Animals as sources of food, work, and companionship.
- Importance of animals in the ecosystem.

Chapter - 5 (Food and Water)

Topics and Sub-topics:

- **Food Sources:**

- Different sources of food (plants and animals).
- Examples of foods obtained from each source (fruits, vegetables, meat).

- **Healthy Eating:**

- Importance of eating a balanced diet.
- Identifying healthy and unhealthy foods.

- **Sources of Water:**

- Natural sources (rain, rivers, lakes).
- Man-made sources (wells, taps, reservoirs).

- **Uses of Water:**
 - Daily uses (drinking, cooking, bathing, cleaning).
 - Water for plants and animals.

Chapter - 6 (Shelter and Clothing)

Topics and Sub-topics:

- **Types of Shelters:**
 - Different types of houses (huts, apartments, bungalows).
 - Materials used for building shelters (wood, brick, steel).
- **Clothing:**
 - Different types of clothes for various weather and occasions.
 - Materials used for making clothes (cotton, wool, synthetic).

Chapter – 7 (We need Air)

Topics and Sub-topics:

- **Air and Breathing:**
 - Air is necessary for breathing for humans, animals, and plants.
 - Simple breathing exercises to feel air movement.
- **Properties of Air:**
 - Air is invisible and occupies space.
 - Demonstrating air with activities (blowing balloons, using fans).
- **Air in Nature:**
 - How air helps in various natural processes (pollination, seed dispersal).
 - Effects of wind on the environment (moving clouds, flying kites).
- **Clean Air:**
 - Importance of clean air for health.
 - Basic ways to reduce air pollution (planting trees, avoiding burning waste).

Chapter - 8 (Water)

Topics and Sub-topics:

- **States of Water:**
 - Water can exist in liquid, solid (ice), and gas (steam) forms.
 - Simple activities to observe changes in states (melting ice, boiling water).
- **Water Cycle:**
 - Introduction to the water cycle (evaporation, condensation, precipitation).
 - How rain forms and its importance for life.
- **Water Conservation:**
 - Ways to save water (turning off taps, fixing leaks).
 - Importance of using water wisely and avoiding wastage.
- **Clean Water:**
 - Necessity of clean water for drinking and daily use.
 - Basic methods to keep water sources clean and safe.

Chapter - 9 (Weather and Seasons)

Topics and Sub-topics:

- **Different Types of Weather:**
 - Understanding various weather conditions (sunny, rainy, cloudy, windy).
 - How weather affects daily life and activities.
- **Seasons:**
 - Introduction to different seasons (summer, monsoon, winter, autumn, spring).
 - Characteristics of each season and how they affect our lives (clothing, activities).
- **Seasonal Changes:**
 - Observing how plants, animals, and people adapt to different seasons.
 - Examples of seasonal foods and festivals.

Chapter – 10 (Safety and First Aid)

Topics and Sub-topics:

- **Safety Rules:**

- Basic safety rules at home (not playing with fire, using appliances carefully).
- Safety at school and on the playground (following rules, being careful).

- **Road Safety:**

- How to cross the road safely (using pedestrian crossings, looking both ways).
- Understanding traffic signals and signs.

- **First Aid:**

- Simple first aid for cuts and bruises (cleaning, bandaging).
- Knowing when and how to ask for help in emergencies.

Chapter – 11 (Our Neighbourhood)

Topics and Sub-topics:

- **Community and Services:**

- Important places in the neighbourhood (market, park, hospital).
- Role of community helpers (police, fire fighters, postal workers).

- **Neighbourhood Safety:**

- Keeping the neighbourhood clean and safe.
- Understanding and following community rules.

Chapter – 12 (Transport and Communication)

Topics and Sub-topics:

- **Modes of Transport:**

- Different means of transport (land, water, air).
- Uses of each type of transport in daily life.

- **Communication:**

- Various means of communication (letters, telephones, internet).
- Importance of communication in connecting people.