

# SCIENCE SYLLABUS

## Class – 2

### 2<sup>nd</sup> 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.
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- **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).
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- **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).
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- **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.
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- **Seasons:**
    - Introduction to different seasons (summer, monsoon, winter, autumn, spring).
    - Characteristics of each season and how they affect our lives (clothing, activities).
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- **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.