

SCIENCE SYLLABUS

Class – 4

4th Class Science Syllabus – An Overview

In Class 4, the NCERT syllabus for Science continues to integrate science with a broad understanding of the environment, everyday life, and social studies. The topics are designed to introduce young learners to basic scientific concepts while encouraging observation, exploration, and inquiry. Here's a detailed breakdown of the topics and sub-topics covered in the NCERT Science syllabus for Class 4, with a focus on science-related aspects:

Here our chapters for ITSE Examination :-

Chapter 1. Living and Non-Living Things

Chapter 2. Plants

Chapter 3. Animals

Chapter 4. Human Body

Chapter 5. Food and Nutrition

Chapter 6. Habitats

Chapter 7. Clothing

Chapter 8. Electricity and Magnetism

Chapter 9. Light

Chapter 10. Sound

Chapter 11 . Force and Pressure

Chapter 12 . Natural Resources

Chapter - 1 (Living and Non- Living Things)

Topics and Sub- Topics:

- Characteristics of living things.
- Differences between living and non-living things.
- Basic needs of living things (food, water, air).

Chapter - 2 (Plants)

Topics and Sub-topics:

- Parts of a plant and their functions
 - Roots, stem, leaves, flowers, fruits, seeds
- Types of plants
 - Trees, shrubs, herbs, climbers
- Photosynthesis
 - Process and importance

Chapter - 3 (Animals)

Topics and Sub-topics:

- **Classification of animals**
 - Based on habitats and characteristics
- **Animal nutrition**
 - Carnivores, herbivores, omnivores

- **Animal adaptations**
 - Adaptations to different habitats.

Chapter – 4 (Human Body)

Topics and Sub-topics:

- **Digestive system**
 - Organs involved, digestion process
- **Respiratory system**
 - Organs involved, breathing mechanism
- **Circulatory system**
 - Heart, blood vessels, blood circulation.

Chapter - 5 (Food and Nutrition)

Topics and Sub-topics:

- **Food groups**
 - Carbohydrates, proteins, fats, vitamins, minerals.
- **Balanced diet**
 - Importance, planning meals.
- **Food preservation**
 - Methods (drying, cooling, freezing).

Chapter - 6 (Habitats)

Topics and Sub-topics:

- **Types of habitats**
 - Forests, deserts, grasslands, aquatic habitats
- Interdependence of plants and animals in habitats.
- Conservation of habitats and biodiversity.

Chapter – 7 (Clothing)

Topics and Sub-topics:

- Types of clothing materials
 - Natural and synthetic fibers.
- Properties of clothing materials
 - Absorbency, strength, elasticity

Chapter - 8 (Electricity and Magnetism)

Topics and Sub-topics:

- **Electric circuit**

- Components (battery, bulb, switch)
 - Conductors and insulators.
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- **Magnets**
 - Properties (poles, attraction, repulsion)
 - Uses in everyday life.

Chapter - 9 (Light)

Topics and Sub-topics:

- **Sources of light**
 - Natural (sun) and artificial (bulbs)
- Reflection and refraction of light.
- Shadows.
 - Formation, properties

Chapter – 10 (Sound)

Topics and Sub-topics:

- **Production of sound**
 - Vibrations, sound waves
- **Properties of sound**

- Pitch, loudness, quality
- **Hearing and ear.**

Chapter – 11 (Natural Resources)

Topics and Sub-topics:

- **Types of resources**
 - Renewable (water, air) and non-renewable (minerals, fossil fuels).
- **Conservation of resources**
 - Reduce, reuse, recycle.
- **Environmental conservation**
 - Role of individuals and communities.

Chapter – 12 (Force and Pressure)

Topics and Sub-topics:

- **Force**
 - Types (push, pull)
 - Effects on objects (motion, deformation).
- **Pressure**
 - Definition, units
 - Examples in daily life (air pressure, water pressure).