

## SUMMARY

### NCERT Class 6 Science Chapter 10: Living Creatures: Exploring Their Characteristics

#### Overview

This chapter helps learners identify the fundamental traits that make living organisms unique. From movement and breathing to nutrition and reproduction, understanding these characteristics is vital for mastering general science topics in competitive exams.

#### Key Concepts

- **What Makes Something Living?**

- Living things move, grow, breathe, eat, feel, and reproduce.
- They show response to stimuli, require energy, and have a lifespan.
- Non-living things (like chairs, rocks) do not show these features.

- **Key Characteristics of Living Beings**

- **Movement**

- Animals move to find food or escape danger.
- Plants show slow movements (e.g., sunflower turning to light).

- **Growth**

- Living things grow in size and weight over time.
- Example: A seed becomes a plant; a baby grows into an adult.

- **Nutrition (Food Intake)**

- All living beings need food to survive and grow.
- Plants make their own food (photosynthesis); animals consume plants/other animals.

- **Respiration (Breathing)**

- Living things use oxygen to release energy from food.
- Humans and most animals breathe through lungs; fish use gills; plants exchange gases via tiny pores.

- **Excretion**

- Removal of waste from the body.
- Plants also get rid of gases and excess water.

– **Response to Stimuli**

- Living beings respond to changes in their surroundings.
- Example:
  - ◇ Humans withdraw their hands when touching a hot object, and plants bend toward the sunlight.

– **Reproduction**

- Living organisms produce offspring.
- Humans, animals, and plants all have ways to reproduce (seeds, eggs, babies, etc.).

· **Difference Between Living and Non-Living Things**

- Feature Living Things Non-Living Things
  - Growth Yes No
  - Movement Yes (active or passive) No (unless moved by force)
  - Nutrition Yes No
  - Respiration Yes No
  - Excretion Yes No
  - Reproduction Yes No
  - Response to Stimuli Yes No

## **Application-Based Questions Competitive Exams Focus**

· **Frequently Asked Concepts:**

- Identify whether an object is living or non-living
- Match body parts (lungs, gills, leaves) with respiration types
- Classify movement (plants vs animals)
- Examples of reproduction in nature
- Concepts of growth, response, nutrition

· **Useful for:**

- UPSC/CSAT: Conceptual understanding in General Science
- SSC, TNPSC, RRB: Quick facts about plant/animal biology
- Olympiads & School Quizzes: Characteristic-based MCQs
- Police/State Level Exams: Everyday science reasoning

Source: NCERT Class 6 Science Chapter 10

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