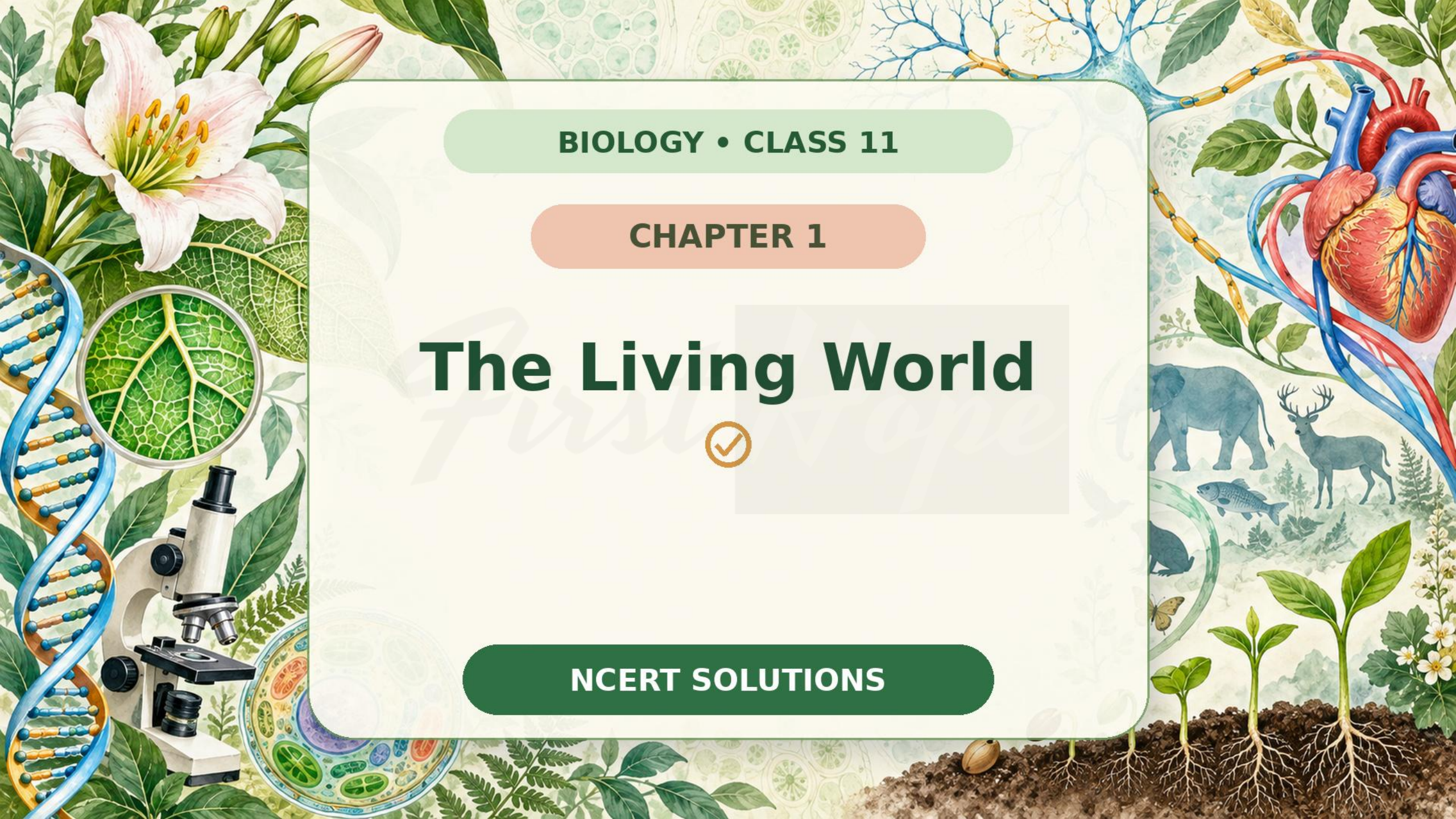




BIOLOGY • CLASS 11

CHAPTER 1

The Living World



NCERT SOLUTIONS

EXERCISE SOLUTIONS: QUESTIONS 1-2

Question 1. Why are living organisms classified?

Answer: There is an enormous variety of living organisms. Classification places organisms into groups using similarities and differences. This makes their study, identification and naming easier, avoids confusion, and helps us understand relationships among organisms.

Question 2. Why are classification systems changing every now and then?

Answer: New organisms are discovered continuously, and new information about cell structure, body organisation, reproduction and evolutionary relationships becomes available. Therefore, earlier groupings are revised so that classification reflects the best available evidence.

EXERCISE SOLUTIONS: QUESTIONS 3-4

Question 3. What different criteria would you choose to classify people that you meet often?

Answer: The criteria depend on the purpose. People may be grouped by age, occupation, education, interests, language, place of residence, physical features or relationship to us. A useful classification should use clear, observable criteria and should not imply that one group is more valuable than another.

Question 4. What do we learn from identification of individuals and populations?

Answer: Identification tells us the correct identity and scientific name of an organism. It reveals its diagnostic characters, the taxon to which it belongs, its similarities and differences from related organisms, and helps us study variation and distribution within populations.

EXERCISE SOLUTIONS: QUESTIONS 5-6

Question 5. Identify the correctly written scientific name of mango: *Mangifera Indica* or *Mangifera indica*.

Answer: The correct name is *Mangifera indica*

The generic name begins with a capital letter; the specific epithet begins with a lowercase letter. In print the binomial is italicised; when handwritten, both words are underlined separately.

Question 6. Define a taxon. Give examples of taxa at different hierarchical levels.

Answer: A taxon is a named biological group at any rank in a classification.

species: Panthera leo → genus: Panthera → family: Felidae → order: Carnivora → class: Mammalia → phylum: Chordata → kingdom: Animalia.



FREE PREVIEW

[Click here to visit our website](#)

SCHOOL NOTES & NCERT SOLUTIONS

Complete notes and
NCERT solutions are
available on
FirstHope app only.



[Scan or click here](#)

Click here to get the app

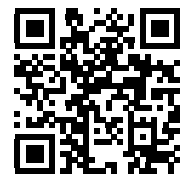


Available on Google Play

JOIN THE FIRSTHOPE COMMUNITY

Join our Telegram channel

Click here to join Telegram



[Scan or click here](#)

@FirstHope_CBSE_Notes

Instagram

@firsthope.school

[Click here to follow >](#)

YouTube channel

@firsthope.school

[Click here to watch >](#)

FirstHope website

firsthope.co.in

[Click here to visit our website >](#)

CBSE / Class 9 / Class 10 / Class 11 / Class 12

Preview notes and NCERT solutions. Full PDFs in the FirstHope app.