

Quick Revision Sheet – Std 10 Science II, Chapter 6: Animal Classification

- Basis of Classification: Body symmetry, Germ layers, Body cavity, Segmentation, Notochord.
- Symmetry: Asymmetrical (Sponges), Radial (Cnidaria, Echinodermata), Bilateral (Platyhelminthes onwards).
- Germ Layers: Diploblastic (Cnidaria), Triploblastic (others).
- Coelom: Acoelomate (Platyhelminthes), Pseudocoelomate (Nemathelminthes), Coelomate (Annelida onwards).
- Segmentation: Present in Annelida, Arthropoda, Chordata.
- Notochord: Absent in invertebrates, Present in Chordates.

Phylum/Class	Key Features	Examples
Porifera	Pores, Collar cells, Asymmetrical	Sponges
Cnidaria	Diploblastic, Stinging cells	Hydra, Jellyfish
Platyhelminthes	Flat, Acoelomate, Bilateral	Planaria
Annelida	Segmented, Coelomate	Earthworm
Arthropoda	Exoskeleton, Jointed legs	Cockroach
Mollusca	Soft body, Shell, Tentacles	Octopus, Snail
Echinodermata	Radial, Tube feet	Starfish
Chordata (Pisces, Amphibia, Reptilia, Aves, Mammalia)	Notochord, Backbone	Fish, Frog, Lizard, Bird, Human

- **Exam Tip:** Focus on ‘Give Reasons’, classification tables, short notes (Collar cells, Starfish), and figure-based identification.