

CLASS 8

SCIENCE

REVISION NOTES

Revision Notes for Class 8 Science Chapter 12: How Nature Works in Harmony

Condensed revision notes for Class 8 Science Chapter 12: How Nature Works in Harmony - Curiosity textbook.

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Population: all individuals of one species in an area. **Community:** all populations of different species interacting in an area. **Ecosystem:** a community plus its non-living (abiotic) environment (soil, water, air, sunlight).

Food chain: a straight-line sequence of who-eats-whom (e.g. grass → grasshopper → frog → snake).

Food web: the full network of overlapping, interconnected food chains in a real ecosystem — more stable than a single food chain.

Trophic level: an organism's position in a food chain. Producers = 1st level; herbivores = 2nd; small carnivores = 3rd; top/large carnivores = 4th (and beyond).

Producers: make their own food (e.g. green plants, via photosynthesis). **Consumers:** eat other organisms (herbivores, carnivores, omnivores). **Decomposers:** break down dead organic matter, recycling nutrients back to producers (e.g. fungi, bacteria).

Ecological pyramid: numbers/biomass generally decrease at each higher trophic level, since only a fraction of energy transfers up the chain ("ten percent law," roughly).

Removing a species at any trophic level affects both the level below (less predation) and the level above (less food) — effects ripple through the whole food web.

Mangrove forests act as natural coastal barriers against storms/tsunamis, and provide breeding habitat for marine life and natural water filtration.

Sustainable agriculture practices (crop rotation, organic farming, reduced chemical inputs) help maintain soil health and biodiversity long-term, compared to unsustainable monoculture with heavy fertiliser/pesticide use.

More on this chapter: [NCERT Solutions for Class 8 Science Chapter 12](#) | [Extra Questions for Class 8 Science Chapter 12](#) | [Class 8 Science Book](#) | [Formulas/Concepts Handbook](#)