

CLASS 8

SCIENCE

REVISION NOTES

## Revision Notes for Class 8 Science Chapter 13: Our Home: Earth, A Unique Life Sustaining Planet

---

Condensed revision notes for Class 8 Science Chapter 13: Our Home: Earth, A Unique Life Sustaining Planet - Curiosity textbook.

Condensed revision notes for Class 8 Science Chapter 13: Our Home: Earth, A Unique Life Sustaining Planet – Curiosity textbook.

**Habitable zone:** the region around a star where temperatures allow liquid water to exist — Earth's distance from the Sun (~150 million km) places it here.

**Atmosphere:** Earth's nitrogen/oxygen-rich atmosphere supports breathing, regulates temperature via the greenhouse effect, and the ozone layer blocks harmful UV radiation.

**Magnetic field:** shields the atmosphere from being stripped away by solar wind (charged particles from the Sun).

**Plate tectonics:** recycles nutrients and drives the long-term carbon cycle, helping stabilise climate over geological time.

**Size and gravity:** must be balanced — too small (weak gravity) loses its atmosphere to space (like Mars); too large (strong gravity) can trap an overly thick, overheating atmosphere (like Venus).

**Geodiversity:** variety of non-living geological features (landforms, rocks, soils). **Biodiversity:** variety of living organisms. Related but distinct concepts.

**Sexual reproduction:** offspring differ from parents because they inherit a mixed combination of genes from both parents.

**Vegetative propagation:** asexual reproduction from plant parts (stem, root, leaf) — e.g. money plant, potato, ginger, sugarcane, bamboo.

**Climate change today vs. the past:** past changes were natural and gradual; today's warming is faster and primarily driven by human greenhouse gas emissions (the “triple planetary crisis”: climate change, biodiversity loss, pollution).

**Without an atmosphere:** no breathable air, no UV protection, extreme temperature swings, and no stable liquid water or water cycle.

**More on this chapter:** [NCERT Solutions for Class 8 Science Chapter 13](#) | [Extra Questions for Class 8 Science Chapter 13](#) | [Class 8 Science Book](#) | [Formulas/Concepts Handbook](#)