

# AP Environmental Science Cheat Sheet

[Practice AP Environmental Science](#) 

## Unit 1: Ecosystems

- **Ecological Relationships**
  - **Predator–Prey:** One hunts another.
  - **Mutualism:** Both benefit.
  - **Commensalism:** One benefits, other unaffected.
  - **Parasitism:** One benefits, one harmed.
  - **Competition:** Compete for resources.
- **Biomes**
  - **Terrestrial:** Tundra, Taiga, Temperate Forests, Tropical Rainforests, Grasslands, Savanna, Desert.
  - **Aquatic:** Coral Reefs, Estuaries, Ponds, Lakes, Rivers, Oceans.
- **Cycles**
  - **Carbon Cycle:** Photosynthesis, respiration.
  - **Nitrogen Cycle:** Fixation, nitrification, denitrification.
  - **Phosphorus Cycle:** Rocks, soil.
  - **Hydrologic Cycle:** Precipitation, evaporation.
- **Productivity & Trophic Levels**
  - **GPP:** Total energy captured.
  - **NPP:** Energy after plant use.
  - **Trophic Levels:** Producers, Consumers, Decomposers.
  - **10% Rule:** Energy transfer efficiency.
- **Food Web**
  - Flow of energy and nutrients.

Additional Notes:

# Ap Environmental Science Chapter 4 Vocabulary

**Xiaolong Qi**

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