Environmental Science Summer Homework

To get prepared for Environmental Science, I recommend you focus on these tasks over the summer.

**1. Understand Earth’s Systems**

Learn the basics of:

* The geosphere, atmosphere, hydrosphere, and biosphere
* Plate tectonics, weather patterns, and the water cycle
* How these systems interact

**2. Study Ecosystems and Energy Flow**

Focus on:

* Food chains and food webs
* Trophic levels and energy pyramids
* Biogeochemical cycles (carbon, nitrogen, phosphorus)

**3. Explore Human Impact on the Environment**

Research:

* Deforestation, pollution, and climate change
* Urbanization and habitat destruction
* Overfishing and resource depletion

**4. Practice Data Interpretation**

Environmental science involves analyzing:

* Graphs and charts
* Maps and satellite images
* Case studies and experimental data

**5. Learn Key Environmental Laws and Policies**

Familiarize yourself with:

* Clean Air Act, Clean Water Act
* Endangered Species Act
* International agreements like the Paris Accord

**6. Read Environmental News and Documentaries**

Stay informed by:

* Following reputable sources (e.g., National Geographic, NASA Earth, EPA)
* Watching documentaries like *Our Planet*, *Before the Flood*, or *The Story of Stuff*

**7. Practice Scientific Writing and Argumentation**

Work on:

* Writing clear, evidence-based explanations
* Citing sources properly
* Constructing arguments about environmental issues

**8. Get Involved Locally**

Try:

* Volunteering for a cleanup or conservation project
* Visiting a local nature reserve or water treatment plant
* Starting a small sustainability project at home

**9. Review Basic Chemistry and Biology**

Brush up on:

* Chemical reactions, pH, and the periodic table
* Cell biology and photosynthesis
* Population dynamics and biodiversity

**10. Start a Nature Journal or Observation Log**

Track:

* Local weather patterns
* Wildlife sightings
* Changes in your environment over time