¶0.1



ENVS 101 B: LECTURE 0 — Course Overview

Environmental Science at a Glance.

Questions & Feedback Welcome

Email:
garyanderson@mail.grokbot.com

X (Twitter):
@garyanderson

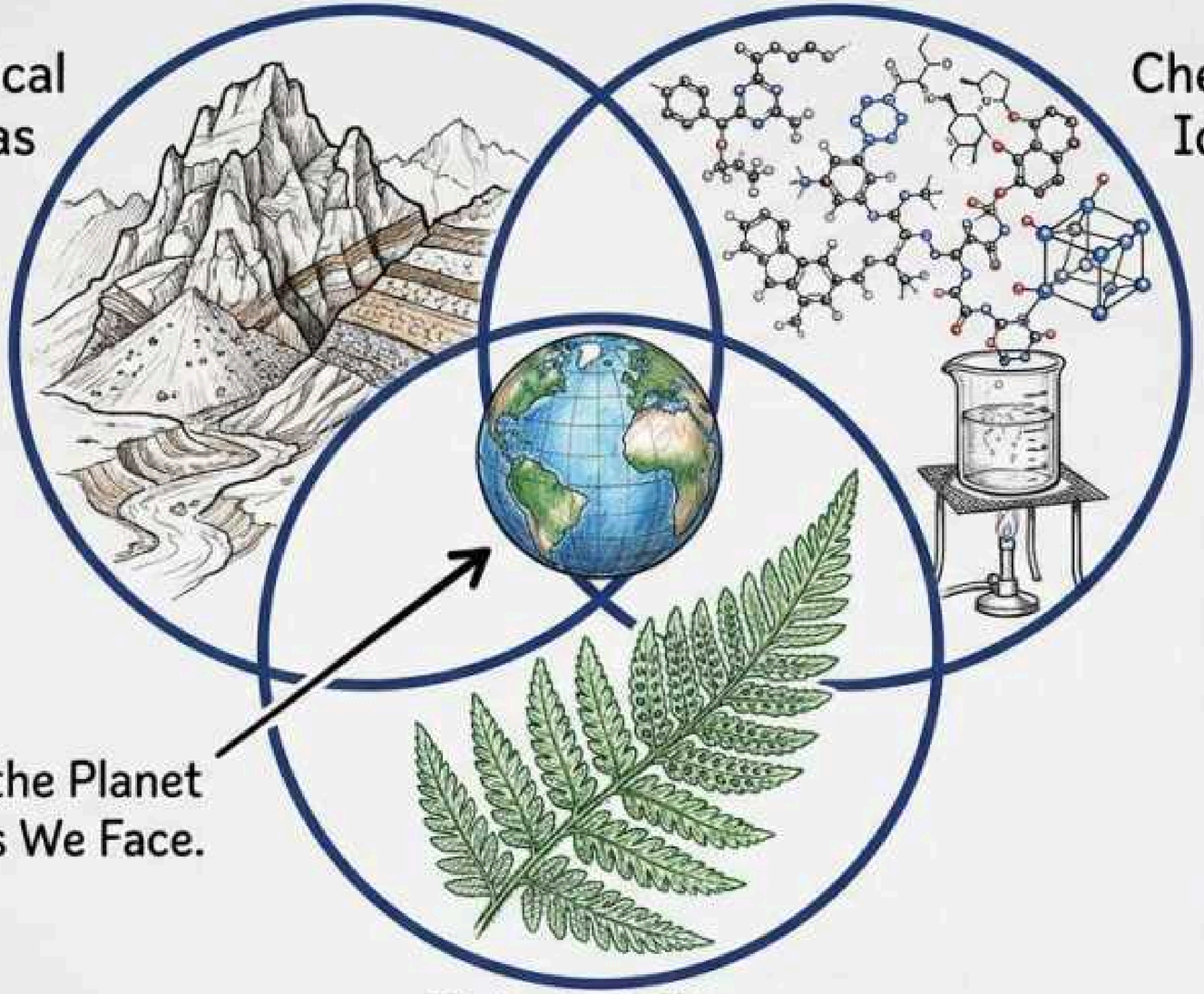


Gemini Notebook

Anderson Academy: ENVS 101 B

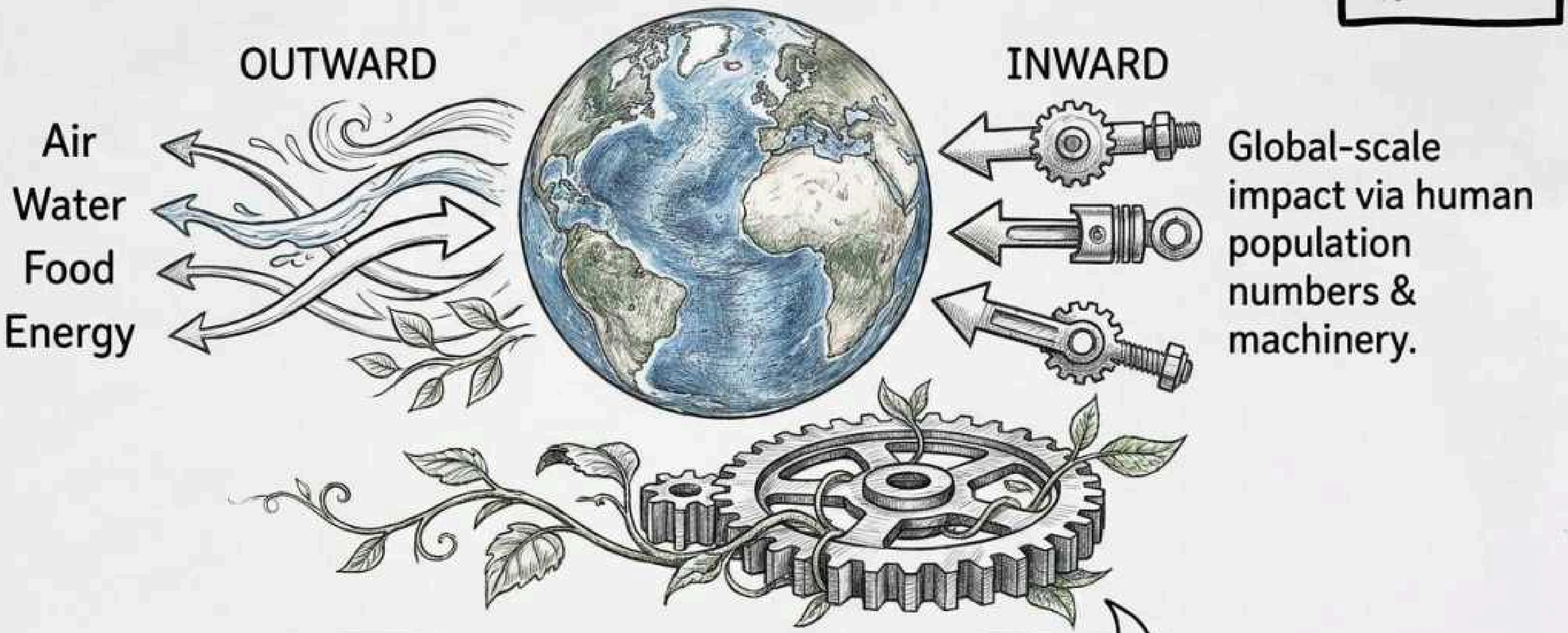
Free, university-level courses (~1 hour each).

¶ 0.2



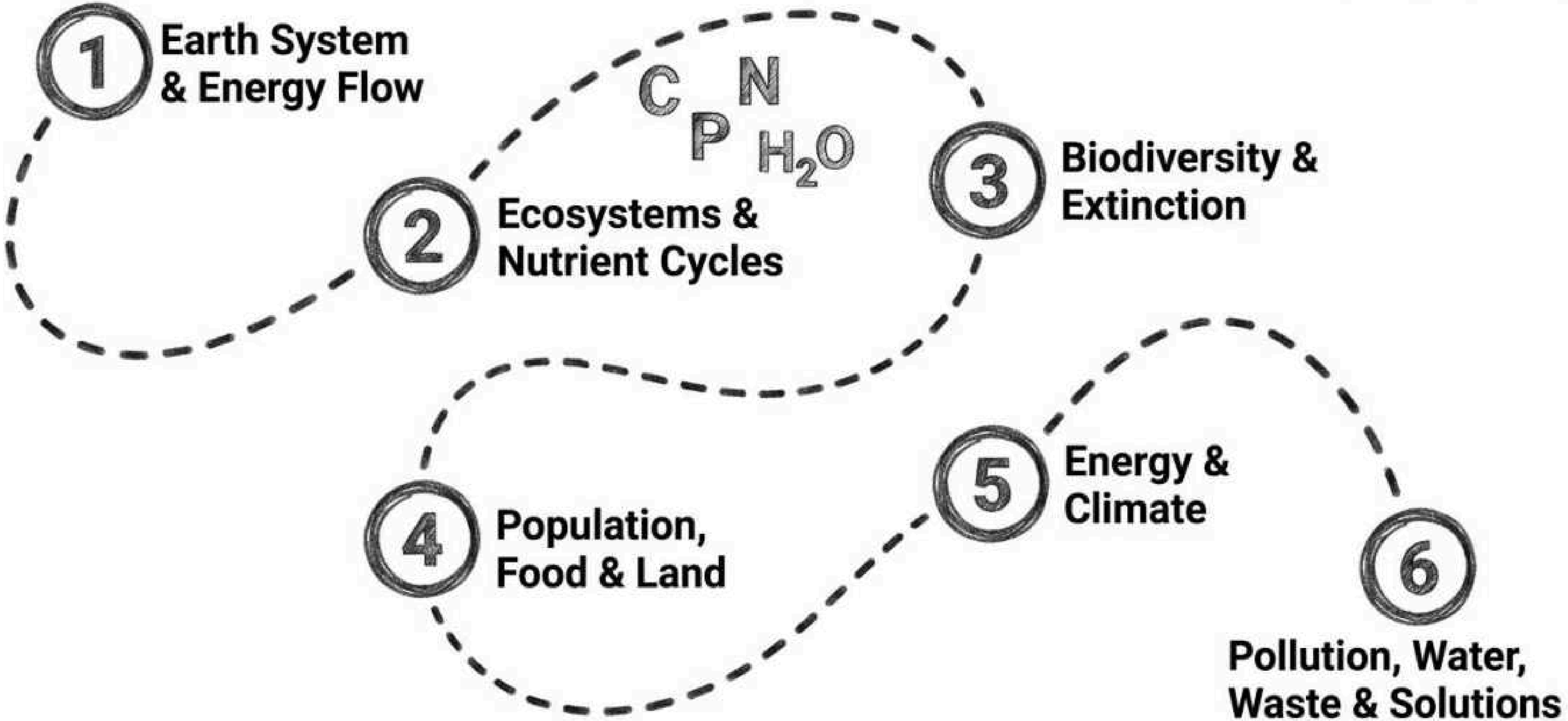
The Practical Stakes

¶ 0.3



Map of the Course

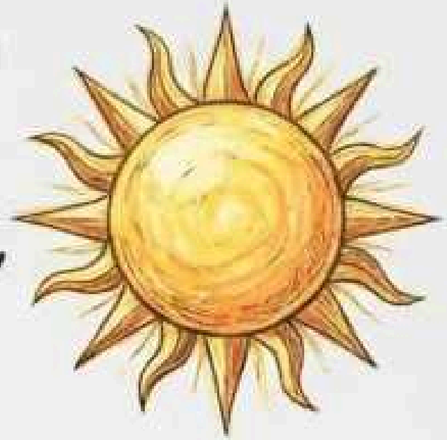
¶ 0.4



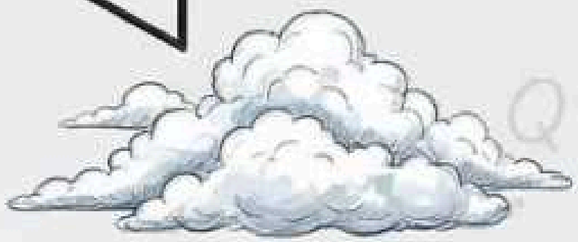
Gemini Notebook

One Idea Runs Through Everything

¶ 0.5



Energy from the Sun → Drives Weather, Oceans, Life.

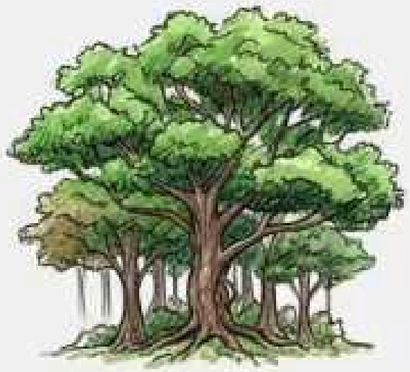


Weather



Oceans

Change one part → Other parts respond.



Life

Matter cycles between Air, Water, Soil, Living things.

Matter cycles between Air, Water, Soil, Living things.

The Planet is a Connected System.

Everything is connected to everything else.

— Barry Commoner (1971)

Gemini Notebook

Methodology & Math

¶ 0.6

Only ordinary arithmetic required.

Metric Units
Meters (m)
Kilograms (kg)
Liters (L)
Degrees Celsius (°C)

Calculations

$$\Delta E = E_{in} - E_{out}$$

$$\frac{dN}{dt} = rN$$

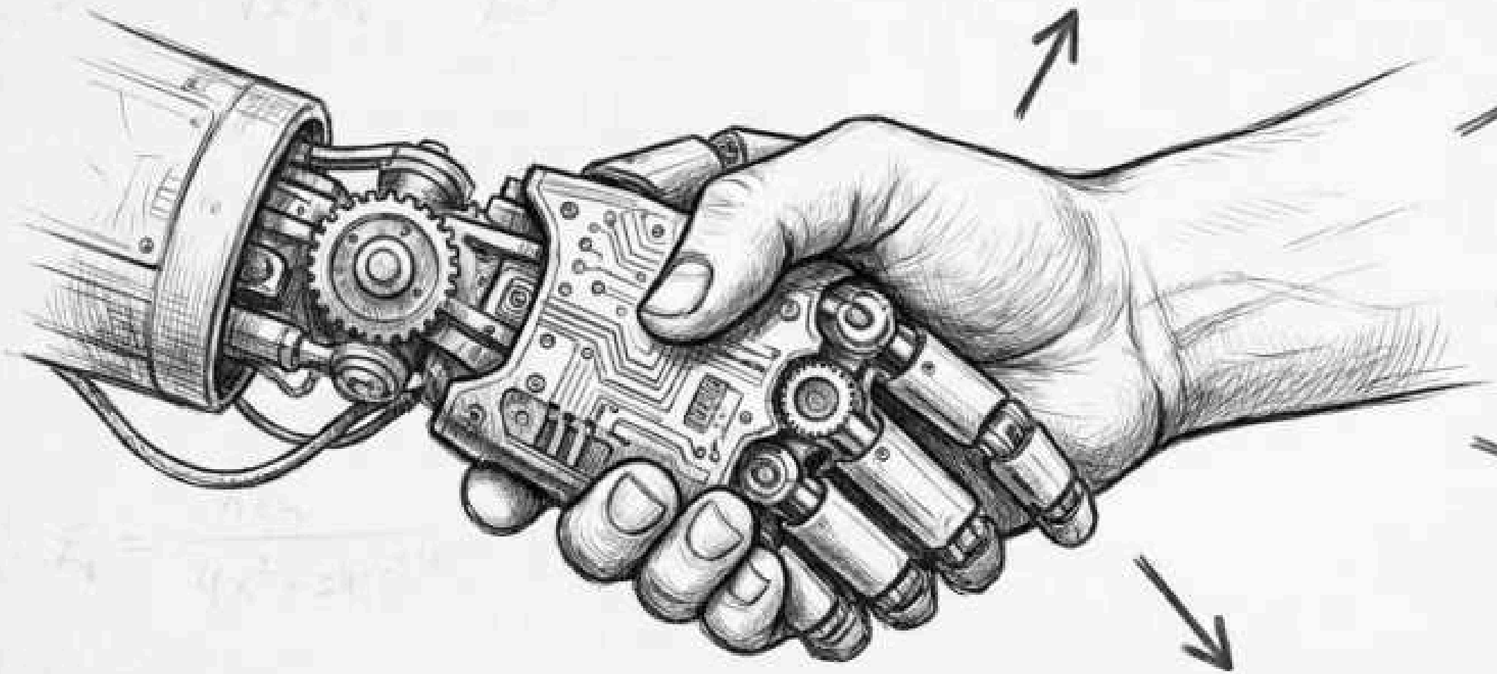
Data Transparency: We cite where numbers come from and note scientific certainty.

Gemini Notebook

Development & Accuracy

¶ 0.7

Developed by Artificial Intelligence, directed by a Human Teacher.



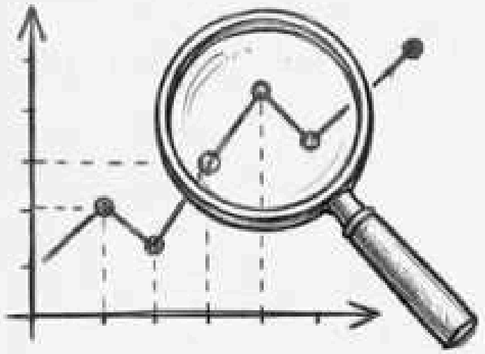
Verification: Every worked calculation is **computer-checked.**

Accountability: Changing annual figures means **mistakes are possible. Paragraphs are numbered** specifically so you can report anything that looks wrong.

Gemini Notebook

How the Subject is Taught

¶ 0.8







The Evidence / Science

- What is happening?
- How fast?
- What follows?

The Arguments / Action

- Values, costs, trade-offs.
- Subject to reasonable disagreement.

We separate objective evidence from subjective arguments, presenting main positions fairly.

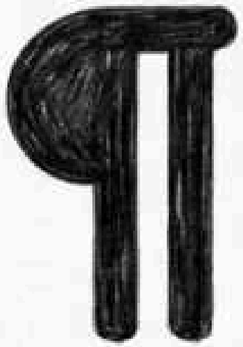
Gemini Notebook

How to Use Each Lecture

¶ 0.9



Watch the video, read the transcript, or both.



Use numbered paragraphs (e.g., ¶ 3.5) to track content.



Take the 5-question quiz (answers point back to specific paragraphs).



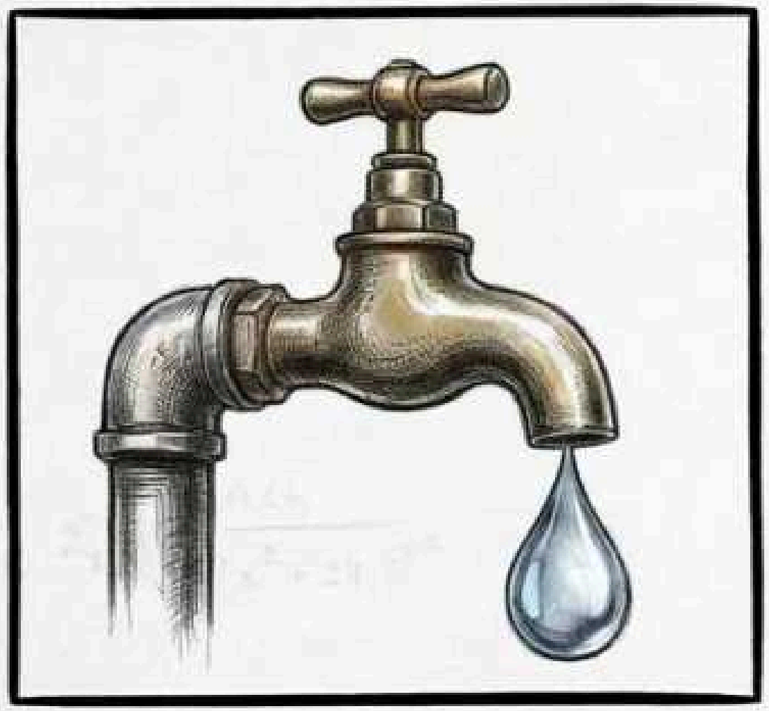
End each lecture with a solo reflection question.

Gemini Notebook

The Best Way to Learn

¶0.10

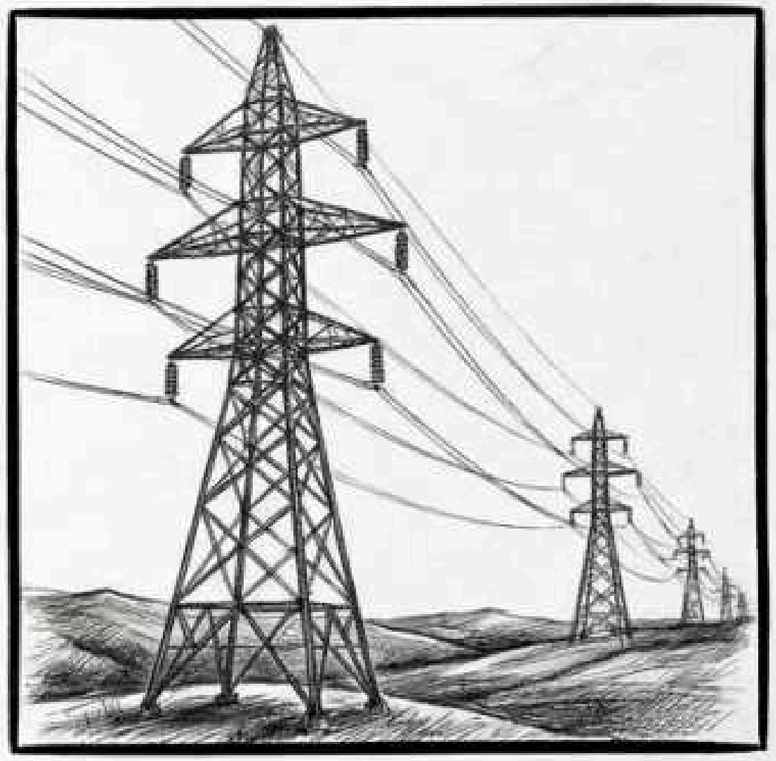
Pause, think about your answer, and compare it with the lecture.
Test ideas against the world around you.



Where does your tap water come from, and where does it go?



Where was your last meal grown?



What kind of power runs your home?

Gemini Notebook

Ready to Start

¶ 0.11

$$P = \sigma A T^4$$

Next Up (Lecture 1): The Earth as a system and the sunlight that powers it.



Questions/Feedback?
g.anderson@mail.grokbot.com
X: @garyanderson

Gemini Notebook