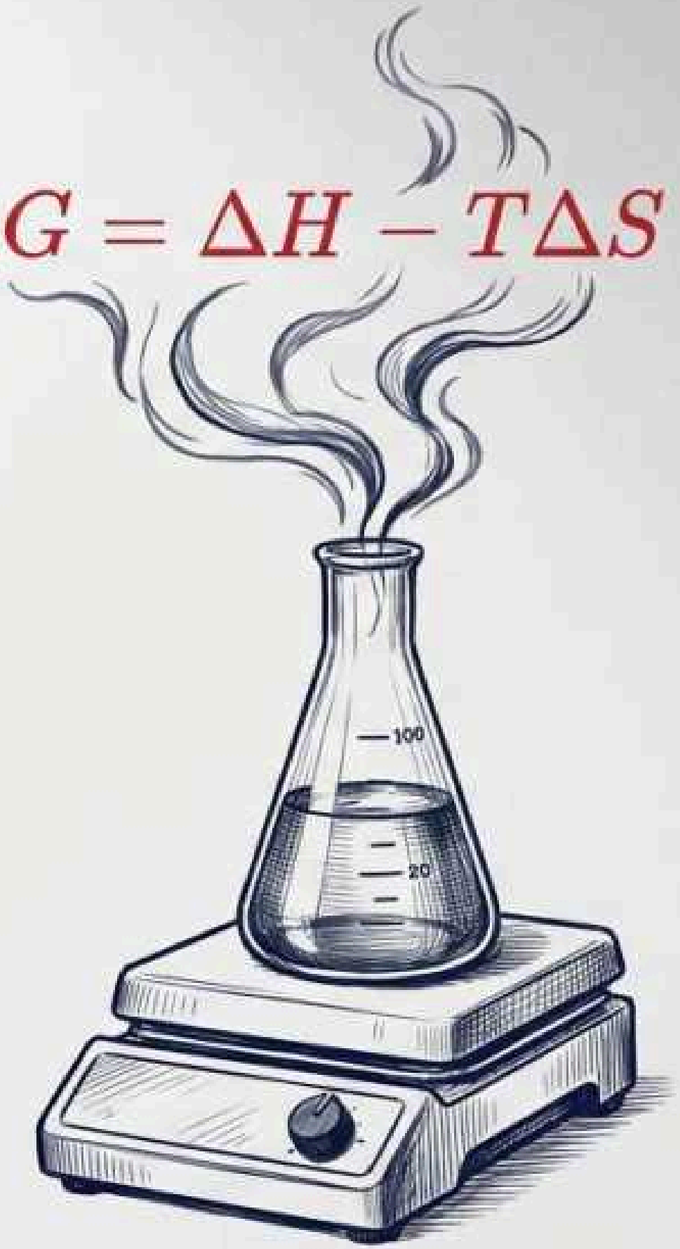
CHEM 102 B

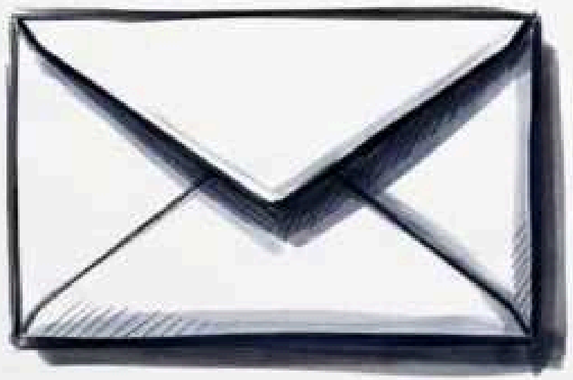
General Chemistry Two Overview

$$\Delta G = \Delta H - T\Delta S$$

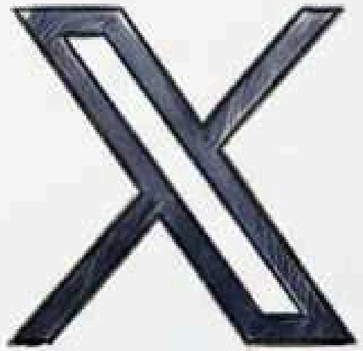


¶ 0.1

Questions and feedback are always welcome.



garyanderson@mail.grokbot.com



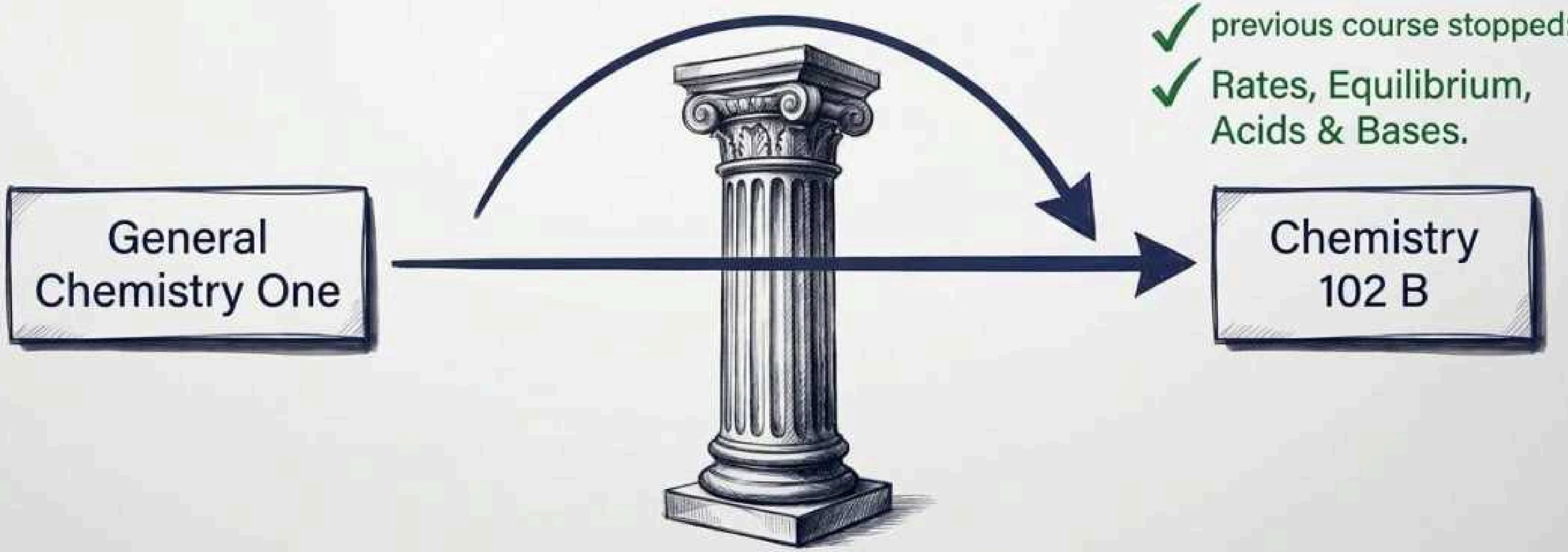
@garyanderson

Welcome to Anderson Academy.

¶ 0.2

Free, university-level short courses designed to be finished in about an hour.

- ✓ Picking up exactly where the previous course stopped:
- ✓ Rates, Equilibrium, Acids & Bases.



¶ 0.3

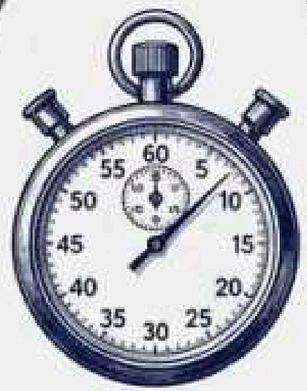
The letter B stands for Brief.

A focused but rigorous structure designed for mastery.

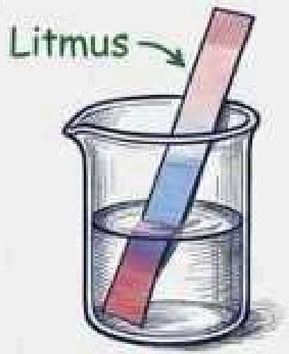
[1 Overview] + [6 Lectures (~1 hr total)] + [6x 5-Question Quizzes] + [50-Question Final] + [ 6-Essay Tripos Paper] = Course Completion

The Curriculum Map.

¶5.4



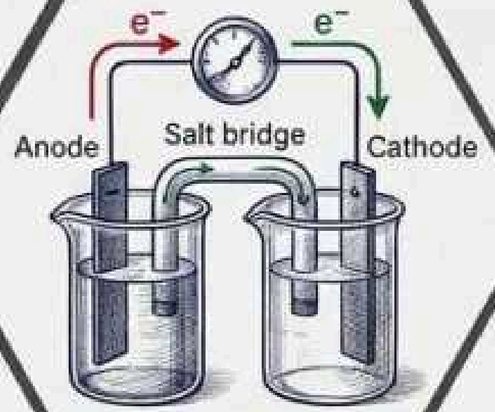
Reaction Rates and Kinetics



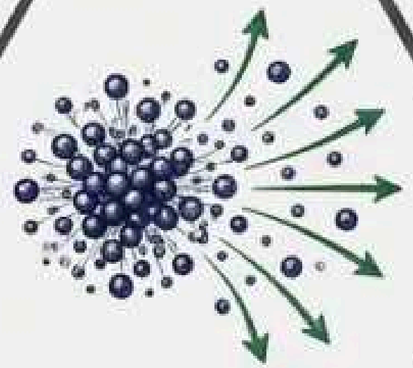
Acids and Bases



Chemical Equilibrium



Electrochemistry



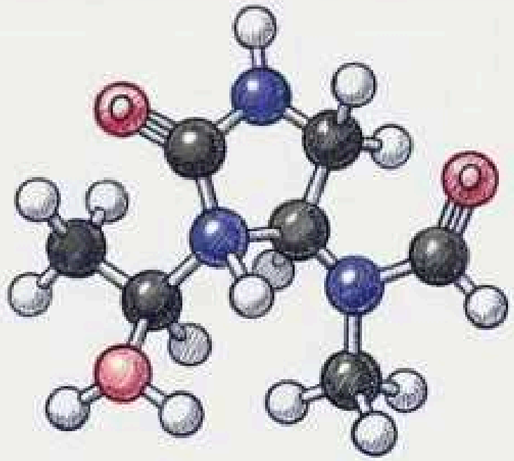
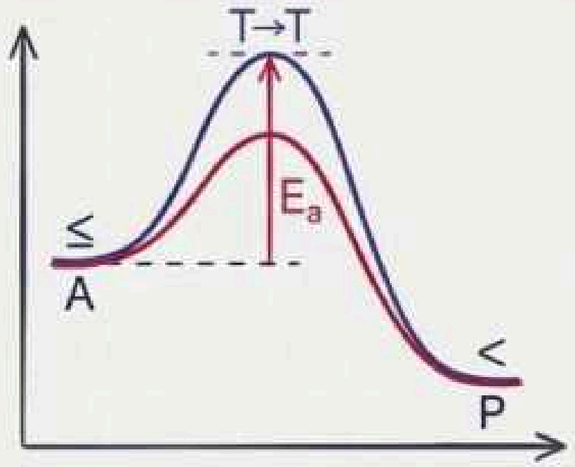
Entropy and Free Energy



Buffers, Titrations, Solubility

Three deeper questions.

¶0.5

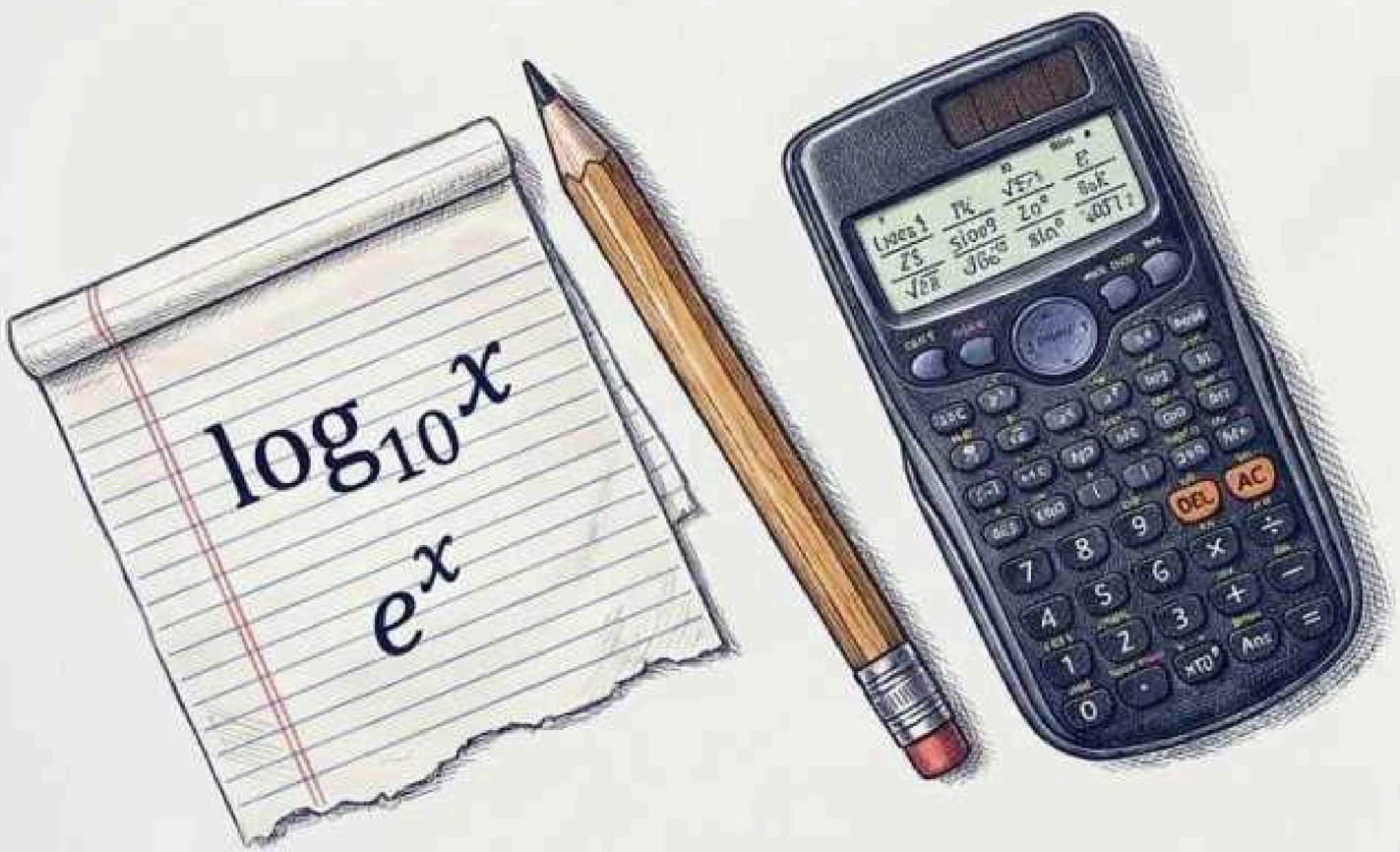
General Chemistry One	Chemistry 102 B
	
What substances? How much?	How fast? (Rates) How far? (Equilibrium) Why at all? (Free Energy)

Moving from static quantities to dynamic systems.

¶0.6

Toolkit and Tactics.

Arithmetic, scientific calculator, and writing tools required.
Expect heavy use of logarithms and exponents.

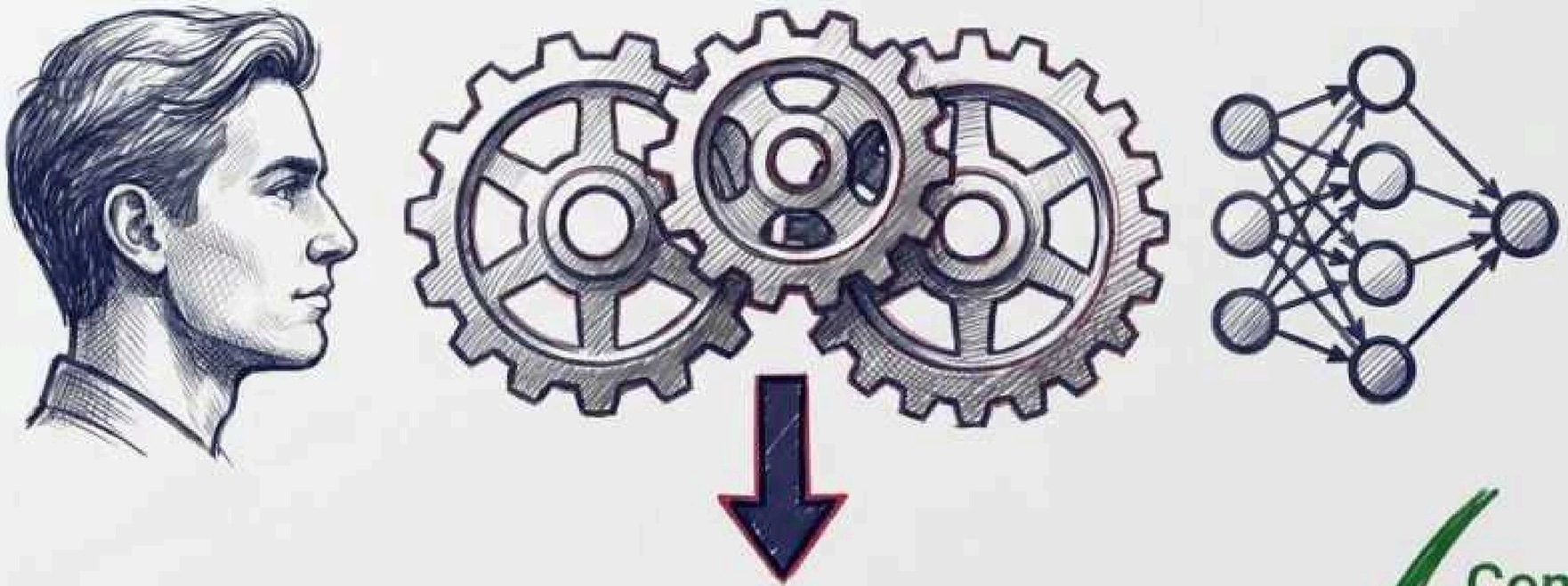


Tactic: Pause the video and attempt each calculation yourself before hearing the answer.

¶ 0.7

Directed by a human teacher, developed with AI.

The Academy demonstrates the power of AI tools in guided learning.
Every calculation is openly **computer-verified**.



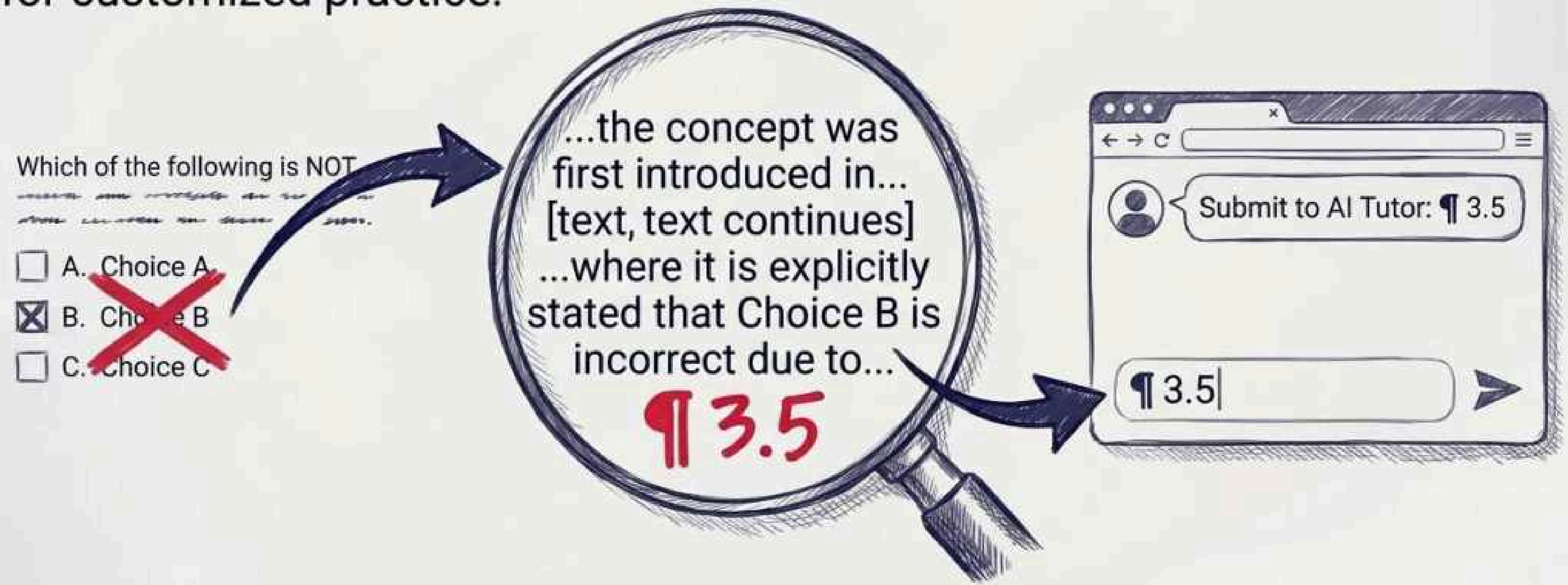
$$CH_4 + 2O_2 \rightarrow CO_2 + 2H_2O$$

Computer Verified

The Coordinate System.

¶0.8

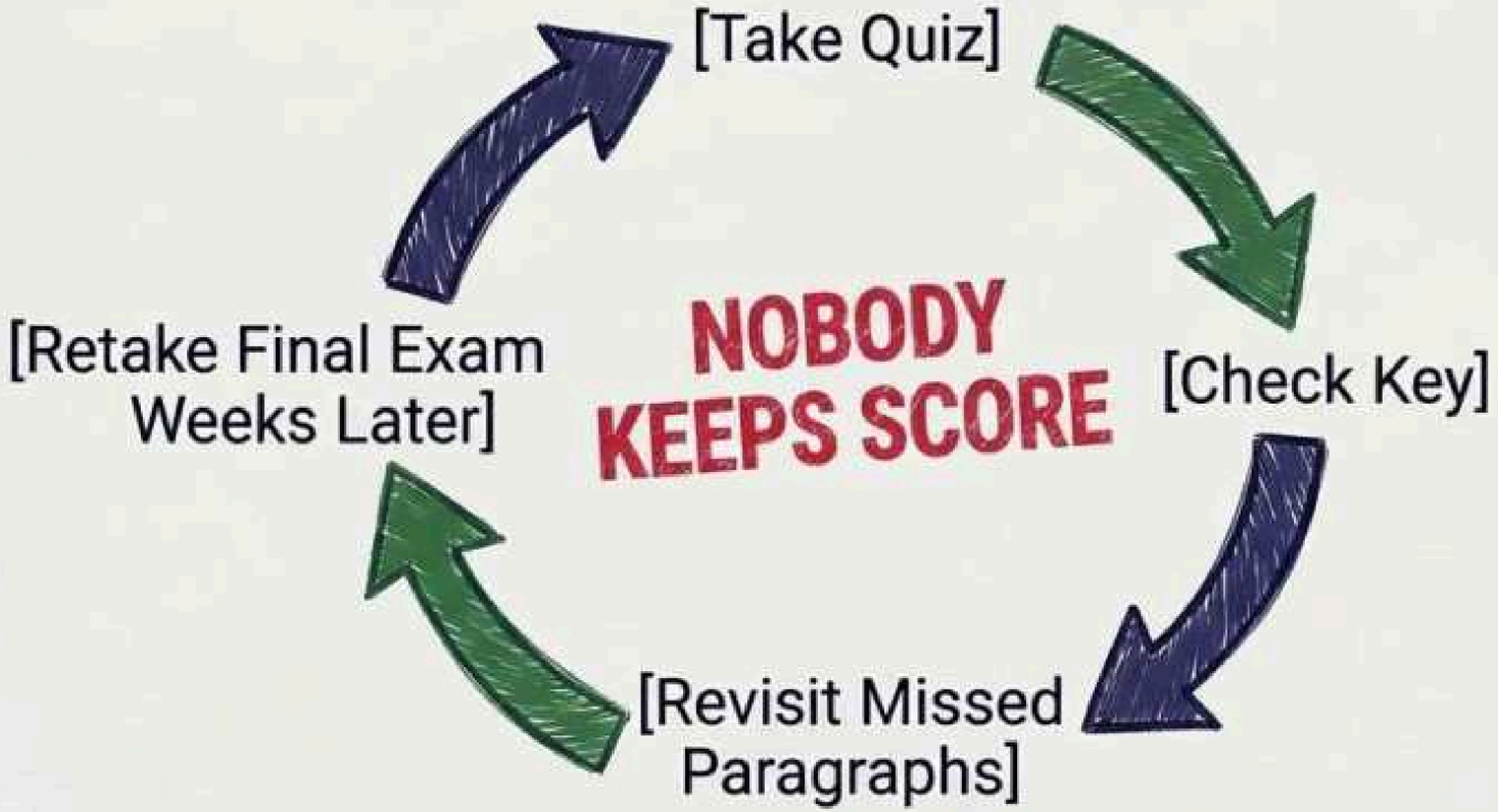
Every transcript paragraph is numbered. Use these coordinates to trace the answer key back to the exact source, or feed them to an AI tutor for customized practice.



¶0.9

Assessments built for learning, not grading.

Formative assessment focuses on what lasts. Check your answers, revisit the text, and test your retention weeks later.



Let us begin with the question of speed.

¶ 0.10

How fast does a chemical reaction go, and what controls it?

