Advanced Placement Chemistry Student Reflection

This course is designed around the AP Chemistry Curriculum Framework and is centered on the six big ideas outlined by the College Board:

Big Idea 1: Atomic Structure - The chemical elements are fundamental building materials of matter, and all matter can be understood in terms of arrangements of atoms. These atoms retain their identity in chemical reactions.

Big Idea 2: Bonding - Chemical and physical properties of materials can be explained by the structure and the arrangement of atoms, ions, or molecules and the forces between them.

Big Idea 3: Rearrangement of Atoms/Electrons - Changes in matter involve the rearrangement and/or reorganization of atoms and/or the transfer of electrons.

Big Idea 4: Kinetics - Rates of chemical reactions are determined by details of the molecular collisions. **Big Idea 5: Thermodynamics -** The laws of thermodynamics describe the essential role of energy and explain and predict the direction of changes in matter.

Big Idea 6: Equilibrium - Any bond or intermolecular attraction that can be formed can be broken. These two processes are in a dynamic competition, sensitive to initial conditions and external perturbations.

Each big idea is supported by enduring understandings, essential knowledge and scientific practices - which are taught in relationship to each other and to the associated big idea(s). The AP Chemistry exam in May is not a test of memorization. Students will have to use their knowledge to find interconnections between different topics. Students will have to reason things out based on lab/inquiry experiences.

This is a rigorous college level course that requires advanced reading and study skills. Students should be very interested in science and enjoy using scientific reasoning and problem solving strategies. Students should exhibit **strong, college-level reading comprehension**. Students should be mature, self-reliant, and self-directed learners. It is strongly recommended that students have completed Honors Chemistry with a B/B+ or higher. **Summer reading and study is required in this course.**

Please circle the appropriate responses in the table below:

Courses already taken	Year taken	Lett	er Gr	ade I	Earned
Honors Chemistry	9 10 11	В	B^+	A-	А

Please circle the appropriate responses:

I regularly perform strongly (85% or better) on all kinds of exams.	Yes	No
I am a mature, independent, & self-directed learner.	Yes	No
I quickly and easily comprehend college level reading.	Yes	No
I display an extremely strong interest in science.	Yes	No

EASTVIEW HONORS CHARACTER STATEMENT

An Honors/AP/CIS student exemplifies the following ch	aracteristics necessary to achieve success:
academic initiative and enthusiasm	high standard of honesty and reliability
self-motivation and an independent work ethic	strong study skills