Due Date:
Complete the following problem correctly to fulfill the late work/redo policy.
Lanthanum (La) metal forms a cation with a +3 charge. Consider the following observations about the chemistry of lanthanum:
• When lanthanum metal is exposed to oxygen, a white solid (Compound A) is formed.
• When lanthanum is added to water, gas bubbles are observed and a different white solid (Compound B) is formed.
• Both Compounds A and B dissolve in hydrochloric acid (HCl) to give a clear solution. When either solution is evaporated, a soluble white solid (Compound C) remains.
• If Compound C is dissolved in water and sulfuric acid is added, a white precipitate (Compound D) forms.
1) Propose the identities (names and formulas) for the Compounds A, B, C and D.
Compound A
Compound B
Compound C
Compound D
2) Write a balanced chemical equation (including states of matter) for all reactions described.

AP/IB Chem - Inquiry into Dimensional Analysis LATE WORK Assignment