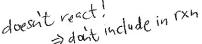
## Unit 2: AP Free Response Practice #1 [6 points] \_\_doesn't react!



- 1. A 3.00 g sample of impure solid, containing sodium chloride and an inert substance, is dissolved in 200. mL of water. An excess of aqueous silver ions is added, and reaction occurs, producing a white precipitate of silver chloride. After filtering and drying, it is found that 0.450 g of solid is produced.
  - a. Write the balanced equation for the reaction which occurs, including states. [2 points]

b. Write the balanced net ionic equation for the precipitation reaction, including states. [1 point]

Calculate the mass of chloride ions in the original impure sample. [2 points]

d. What percent by mass of the original sample was due to chloride ions? [1 point]