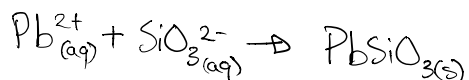
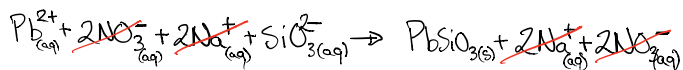
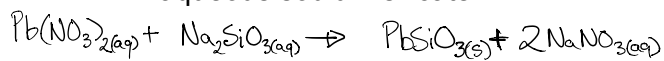


Chemistry 20 - Unit 4 - Introduction to Stoichiometry

Name: _____

- 1) An acceptable method for the treatment of soluble lead waste is to precipitate the lead as a low solubility lead(II) silicate.

- a) Write the net ionic equation for the reaction of aqueous lead(II) nitrate and aqueous sodium silicate.



- b) What can we assume about the ambient conditions and the container that likely could be used?

Probably normal SATP.

Container does not react

- c) Identify the spectator ions in this reaction.



Chemistry 20 - Unit 4 - Introduction to Stoichiometry

Name: _____

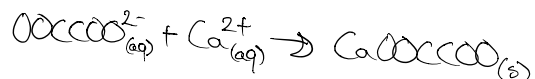
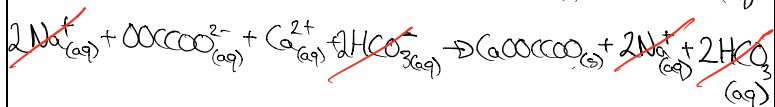
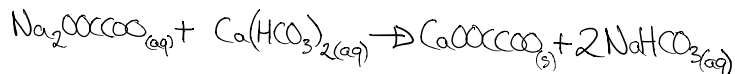
- 1) An acceptable method for the treatment of soluble lead waste is to precipitate the lead as a low solubility lead(II) silicate.

- a) Write the net ionic equation for the reaction of aqueous lead(II) nitrate and aqueous sodium silicate.

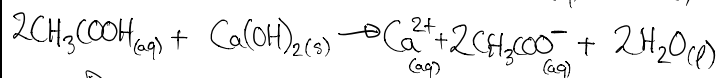
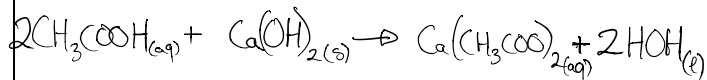
- b) What can we assume about the ambient conditions and the container that likely could be used?

- c) Identify the spectator ions in this reaction.

- 2) In a hard water analysis, sodium oxalate solution reacts with calcium hydrogen carbonate present in the hard water to precipitate a calcium compound. Write the net ionic equation for this reaction.



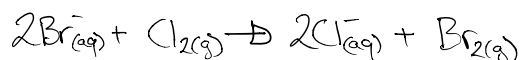
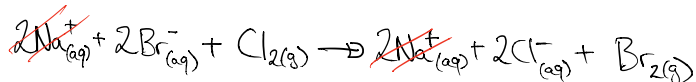
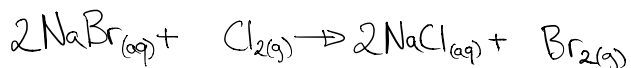
- 3) Write a net ionic equation for the reaction of vinegar (acetic acid solution) with a scale deposit in a kettle (assume solid calcium hydroxide).



↑
weak acids can't dissociate quantitatively.

This is a neutralization reaction.

- 4) Bromine is a disinfectant commonly used in swimming pools. One industrial method of producing bromine is to react sea water, containing sodium bromide, with chlorine gas. Write the net ionic equation for this reaction.



- 2) In a hard water analysis, sodium oxalate solution reacts with calcium hydrogen carbonate present in the hard water to precipitate a calcium compound. Write the net ionic equation for this reaction.

- 3) Write a net ionic equation for the reaction of vinegar (acetic acid solution) with a scale deposit in a kettle (assume solid calcium hydroxide).

- 4) Bromine is a disinfectant commonly used in swimming pools. One industrial method of producing bromine is to react sea water, containing sodium bromide, with chlorine gas. Write the net ionic equation for this reaction.