Experiment: Recognizing A Chemical Reaction

SCH 3UE 2003-2004

For each of the 5 pairs of reactants, put each substance in a separate test tube to a depth of about 1 cm^3. Record your observations of these substances. Mix the contents of one test tube into the other and record your observations.

Reactants		Initial Observations	Final Observations
A	$Ca(NO_3)_{2(aq)}$		
B	$NaOH_{(aq)}$		
C	Fe^{3+}		
D	SCN^{-1}		
E	$NaOH_{(aq)}$		
F	$HCl_{(aq)}$		(Feel test tube)
G	$Na_2CO_{3(s)}$ (~ 0.5g)		
H	$HCl_{(aq)}$		
I	$Zn_{(s)}$ (small pellet)		
J	$CuSO_{4(aq)}$		

Questions

1. Prepare a data table which summarizes all your observations in a systematic fashion.
2. List five(5) ways which indicate that a chemical change is occurring.
3. What type of reaction: combination, decomposition, displacement, or double displacement, is illustrated in each part of this experiment?
4. Write a balanced chemical equation for each reaction occurring.
5. Write a net ionic equation for each reaction.