LA	AD H3 (pg 1 of 1)	Single Replacement Reactions	Name	Per
1.	In the SMALL flask copper(II)] Observa	Aluminum chloride is put into water and then combinations?	ed with solid copper metal.	[if a Rx occurs, assume
2.	In the LARGE flask,	, Copper(II) chloride is put into water and is then com	bined with solid aluminum.	Observations?
3.	Is this reaction exoth	nermic or endothermic? How do you know?		
4.	a. Which element	write the overall and net-ionic equations for the reaction is oxidized, and which element is reduced? How do you numbers to all elements to confirm question (a), and	ou know?	electrons transferred?
5.	a. In these SR reac	reacted, they are atoms, when metals are reacted, they ctions, the metal that is more reactive is the metal that must be more reactive: copper or aluminum? How do	will exist as an ion, rather th	
	b. Check the activi How do you kno	ity series and confirm your conclusion. Which elemenow?	t is listed as more reactive, c	opper or aluminum?
6.	Let's consider the co a. Which ion Cu ²⁺	olor changes. or Cl ⁻ is causing the starting solution to be blue? Ho	w do you know? (hint: AlCl3	color?)
	b. What color is th	e solid product that forms in #2 ? What element is the	solid product?	

c. Why does the blue color of the solution fade as the reaction proceeds? Where does the blue color go?