

Name	

Old Glory Worksheet

Discussion Questions

1.	Describe the contents of each of the beakers. What solution was added to the beakers? What color changes occurred?
2.	Write a balanced chemical equation for the reaction that occurred in each beaker.
	a. Iron(III) ions reacting with thiocyanate ions.
	b. Iron(III) chloride reacting with silver nitrate.
	c.Iron(III) ions reacting with the iron(II) complex ion K_4 Fe(CN) $_6$.
3.	Explain how the solution in Beaker #2 became milky white.
4.	In Beaker #4, a compound informally known as "Prussian blue" is generated. Based on the equations you wrote above, what is the chemical name for Prussian blue?