Name: _____ Section: _____

Partner's name: _____ Date _____

CHEMICAL EQUILIBRIUM I: THE EQUILIBRIUM CONSTANT DATA SHEET

Fe^{3+} *(aq)* + SCN^{-} *(aq)* $\rightleftharpoons$ $Fe(SCN)^{2+}$ *(aq)*.

Laboratory temperature: _____

Part 1 (SOLUTIONS A) : Determination of the Calibration Curve

Reactant part A	Concentrations (mol/L)
$[Fe(NO_3)_3]$	
[KSCN]	
$[HNO_3]$	

Solution	V_{KSCN}, mL	$[Fe(SCN)^{2+}]_{eq}$, mol/L
0		
1		
2		
3		
4		

Part 2 (SOLUTIONS B): Determination of the Formation Constant for $Fe(SCN)^{2+}$

Reactant part B	Concentrations (mol/L)
$[Fe(NO_3)_3]$	
[KSCN]	
$[HNO_3]$	

Solution	Absorbance	$[Fe(SCN)^{2+}]_{eq}$, mol/L
1		
2		
3		

This lab data sheet must be entirely filled in ink and signed by the teacher.