

Dougherty Valley HS AP Chemistry
Equilibrium – K_{eq} Determination

Name:

Date:

Period:

Seat #:

Part I Data Table [Fill in title]:

Temperature: _____ °C

Beaker	[FeSCN ²⁺]	Absorbance	Work for [FeSCN ²⁺] calculation: [to be included in the calculation section – new page in document]
1			
2			
3			
4			

Linear Regression equation:

Part II

Beaker	Absorbance	[FeSCN ²⁺] at equilibrium	Work for [FeSCN ²⁺] calculation: [to be included in the calculation section – new page in document]	Qualitative Observations: [fill in here]
A				
B				
C				

Beaker		Fe ³⁺	SCN ⁻	FeSCN ²⁺	Part II Calculations [one calc per type for each beaker] All calculations must be completed by hand. Photo/scan your calculations and insert into another page in document below. Label it clearly
A	Initial			0.00	
	Change				
	Equilibrium				
B	Initial			0.00	
	Change				
	Equilibrium				
C	Initial			0.00	
	Change				
	Equilibrium				

To be completed on separate sheet of paper in your calculation section:

1. Calculate the value of K_{eq} for the reaction for each Beaker. Explain how you used the data to calculate K_{eq} .

Discussion Questions: