Name			Section				
Partner							
CHM 115 Lab 13 Report Form KINETICS							
Concentration [I'] Effect: Initial Concer	trations in flask:	$[S_2O_3^{2-}]_{-}$		$[H_2O_2]$			
Flask 1 2 3	<u>Initial</u> [Γ]	rea	me of clock action in s	Rate			
4	of ln (Rate) vs. ln [ine			
Order of reaction: with respect to Γ [H ₂ O ₂] Effect:							
Initial Concer	<u>trations in flask</u> : Initial		me of clock	[I ⁻]			
Flask 1 2 3 4	[H ₂ O ₂]	rea	action in s	Rate			
Attach graph of ln (Rate) vs. ln $[H_2O_2]$ Slope of best straight line							
Calculate Rate Constant (k) using the orders of the reaction determined above:							
Flask	# 1	2	3	4			

[I] Effect trials

[H₂O₂] Effect trials

Average rate constant from <u>all</u> trials:

Temperature	Effect			
$\Delta[MnO_4^-]$ for	each trial	_		
Temperature (K) (K^{-1})	1/Temp (s) (-1/2 \Delta	Atime Rate $\Lambda[MnO_4]/\Delta t$	ln (Rate)	
Attach graph	of ln (Rate) vs.	1/T and your sample	e calculations.	
Slope	of best straight	line		

Experimental activation energy