

REPORT

NAME \_\_\_\_\_

CHEMICAL KINETICS

SECTION \_\_\_\_\_

Initial reactant concentrations:

Experiment	[Iodide]	[Persulfate]	[Thiosulfate]	
1				
2				
3				
Temperature of solution, (°C)	21.8			
4				
Temperature of solution, (°C)	6.6			
Experiment	Elapsed time, (s)		Average time, (s)	Rate, (M/s)
	Trial A	Trial B		
1	49.8	51.4		
2	20.1	27.1		
3	58.4	58.4		
4 (ice bath)	129.9	135.3		

For room temperature data:

Reaction Order		
	With correct sig figs	Rounded to whole numbers
With respect to Iodide ion		
With respect to Persulfate ion		
Overall		
Value for $k$ from Experiment 1		
Value for $k$ from Experiment 2		
Value for $k$ from Experiment 3		
Average value for $k$ (including units)		
Room Temperature Rate Law		