

Results #10 — Bromophenol Blue

Names _____

Lab section: M T W Th F

- *Work in groups of 2. Get permission ahead of time to work in groups of 3.*
 - *Please show all work.*
- 1) What are the values of k , m , and n for this reaction? Include units where necessary. Attach 3 plots for experiment 1, 1 plot (the relevant one) for experiment 2. Show your work.

k	
m	
n	

- 2) What is the overall rate law for this reaction? The overall order?

Overall rate law _____

Overall order _____

- 3) Compare the molarity of Bromophenol Blue and NaOH in each experiment/trial:
- Why is one so much greater than the other?
 - Why is such a small concentration of Bp^{2-} used?

(Note: The answer is not the same for both of these questions.)