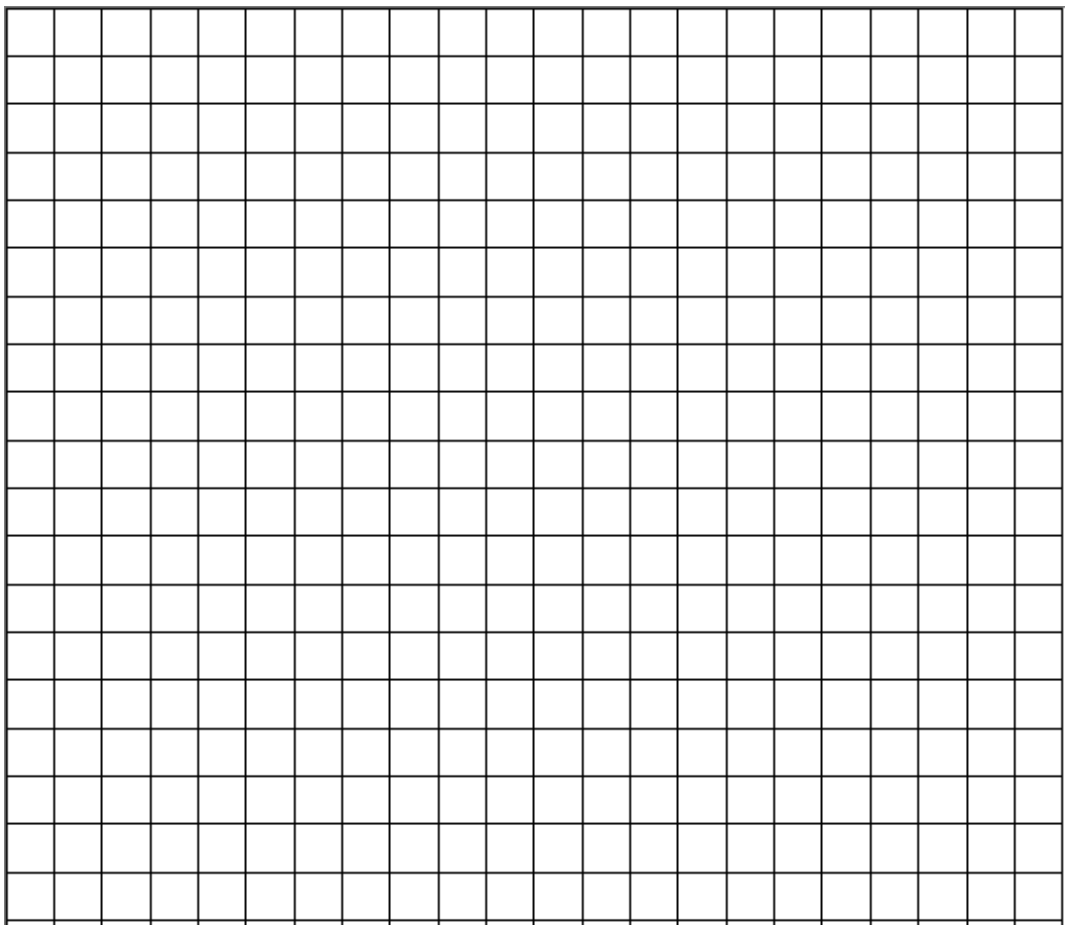
TABLE II - CLASS DATA

	Pennies captured			
Time Period	Trial 1 - Baseline	Trial 2 - Denatured	Trial 3 - Co-enzyme	Trial 4 - Comp. Inhibitor
0-10				
11-20				
21-30				
31-40				
41-50				
51-60				
61-70				
71-80				
81-90				
91-100				

Analysis: Prepare a graph of class data by plotting the time vs. total #s of pennies for each trial. Note: the final product is a line graph with 4 separate lines.

Graph: Label the x-axis and y-axis as well as providing a **title** and *key*.



Questions: (Respond in your lab composition book. Please UPQ.)

1. In this activity, what was the enzyme represented by? the substrate? the coenzyme? the inhibitor?
2. In trial I, why did the rate eventually decrease? What could have been added to maintain the initial rate?
3. If more substrate (pennies) were present in Trial 1 at the beginning, would the initial rate of penny movement have been higher? Why or why not?
4. If we assume that the enzyme is represented by the hand, what happened to the active site during Trial 2?
5. Why does an enzyme not work as well if its active site is changed?
6. What environmental factors affect enzyme shape? (Think about trial 2)
7. What effect did inhibition have upon the reaction rate?
8. How might chemicals affect you if they acted like the rubber ducky (inhibitor) during your bodily reactions?