# Enzyme Catalysis Lab Report Rubric

| Lab Report Structure | Points Possible | Points Earned |
|---|---|---|
| Pre-lab Assignment<br>- **This will be an individual assignment** | 10 | |
| Group Lab Report<br>- Title, Start Date, and Lab partner names | 2 | |
| Experimental Setup<br>- Write a question and possible hypothesis based on what was studied in Activity D<br>- Variables based on Activity D: Independent, Dependent, Control, and Constants<br>- Safety<br>- Procedure and Materials: write "See lab handout" | 2<br>8<br>1<br>1 | |
| Results<br>• Data Charts:<br>  • Baseline Calculations<br>  • Uncatalyzed $H_2O_2$ Decomposition<br>  • Table 2.1 Group data and Class mean data<br>• Graph of Class mean data: axes labeled with correct unit and oriented correctly (5pts), correct scale (2pts), title (2pts), accurate data points (3pts) | <br><br>3<br>3<br>6<br><br>12 | |
| Analysis - **This will be an individual assignment**<br>• Answer all questions in the lab handout for Activity D<br>  • Q1 – 3pts<br>  • Q2 – 3pts<br>  • Q3 – 4pts<br>  • Q4 – 3pts<br>  • Q5 – 3pts<br>  • Q6 – 3pts<br>  • Q7 – 2pt<br>  • Q8 – 2pts<br>  • Q9 – 3pts | 26 | |
| Conclusion:<br>• Paragraph: Discuss the difference between an enzyme catalyzed reaction after 6 minutes (experiment) and a non-enzyme catalyzed reaction (cup left out for 24 hours) in terms of the amount of $H_2O_2$ remaining<br>• Paragraph:<br>  • How did we verify our results?<br>  • Discuss 2 errors that could have occurred and how that could have impacted your results | 4<br><br>1<br>5 | |
| Design an Experiment<br>• Question, hypothesis, variables, brief explanation of the set up and measurement of the experiment (not a listed out procedure), potential graph of the data, and final explanation statements about the results.<br>• Present findings to the class | 10<br>6 | |
| Total | 100 | |