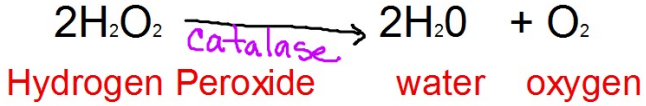
Enzyme Lab

Purpose:

1. To observe the following reaction:



2. To observe different variables that may influence enzyme activity

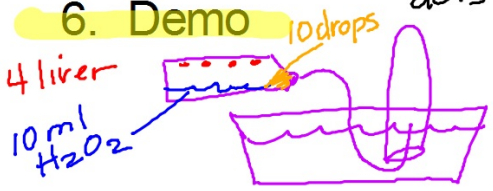
3. To determine if enzymes can be reused.

Materials & Procedure:

Group Data: ml of gas production

ml of gas produced

1. H_2O_2 + regular catalase
   10 ml H_2O_2 4 liver dots
2. H_2O_2 + reused regular catalase
   10 ml H_2O_2 liver dots from part 1
3. H_2O_2 + regular catalase + acid
   10 ml H_2O_2 4 liver dots 10 drops acid HCl
4. H_2O_2 + regular catalase + base
   10 ml H_2O_2 4 liver dots 10 drops base NaOH
5. H_2O_2 + cooked catalase
   10 ml H_2O_2 4 cooked liver dots
6. Demo



Class Data:

Group#	Setup1	Setup2	Setup3	Setup4	Setup5
1					
2					
3					
4					
5					
6					
7					
8					
9·					
Ave					

Data Analysis:

Conclusion:

1. Define Enyme and describe the lock and key theory.
2. What is a substrate? An active site?
3. Answer the Purposes of the experiment USING DATA TO SUPPORT YOUR ANSWER.
4. *Explain* the results.