Temperature (°C)					
Time		25	37	100	
(seconds)	0 Degrees	Degrees	Degrees	Degrees	
15					
30					
45					
60					
75					
90					
105					
120					
135					
150					
165					
180					
195					
210					
225					
240					
255					
270					
285					
300					

Data Tables: Enzymes and Reaction Rate

Enzyme Concentration					
Time					
(seconds)	1 Pieces	2 Pieces			
15					
30					
45					
60					
75					
90					
105					
120					
135					
150					
165					
180					
195					
210					
225					
240					
255					
270					
285					
300					

Post-Lab Questions: Enzymes and Reaction Rate Lab

Post-Lab Questions

- 1) Are enzymes used up during reactions? How do you know this is true?
- 2) Why did we measure the volume of O₂ produced?
- 3) How do you know the reaction rate increased or decreased?
- 4) How did temperature affect the reaction rate (affect the function of catalase)?
- 5) What temperature was the best for the enzyme catalase? Create a <u>paragraph</u> in the **CLAIM**, **EVIDENCE**, **and REASONING** format

6) How does enzyme concentration affect the reaction rate (affect the function of catalase)? Why do you think this happens? Create a <u>paragraph</u> in the **CLAIM**, **EVIDENCE**, **and REASONING** format

7) What are some experimental flaws or sources of error in the experiment? How could these flaws be corrected if we did this experiment again?

8) What were some human errors you may have encountered during the experiment? How could you avoid these errors in the future?

*Turn in the answers to the post-lab questions, data tables, and your graphs. Graphs that must be included

- Temperature Increase
- Temperature Decrease

Enzyme Concentration