

BOTTLE LAB WRITING ASSIGNMENT

How do differing amounts of enzyme and differing amounts of substrate affect the decomposition of hydrogen peroxide and more generally enzymatically catalyzed reactions?

Address this prompt in light of your experience with the dropper bottle lab. Be sure to begin with a clear statement, thesis, as to how varying amounts of enzyme and substrate affect the reaction. Then support your thesis with specific data from the bottle lab in two separate additional paragraphs. In the second paragraph, address the effects of adjusting amount of enzyme and why this effect occurs. In the third paragraph, address the effects of adjusting the amount of substrate and why this effect occurs.

Use the this page as your title page and refer to the scoring guide below to determine how your paper will be assessed.

THESIS

1	2	3	4
Thesis is inaccurate, Incomplete, rambling		Thesis is accurate, complete and consise	

EFFECT OF VARYING ENZYME –Paste Graph

1	2	3
Evidence is insufficient, Inaccurate, and note aligned with thesis, Unclear as to why enzymes have an effect		Evidence is sufficient, accurate and aligned With thesis, clear explanation as to why enzymes have an effect

EFFECT OF VARYING SUBSTRATE—Paste Graph

1	2	3
Evidence is insufficient, Inaccurate, and note aligned with thesis Unclear as to why substrates have an effect		Evidence is sufficient, accurate and aligned With thesis, clear explanation as to why substrates have an effect

