



*Analysis of Results - 5 Points*

Construct a line graph of the amount of carbon dioxide produced vs. time for each of the three temperatures (3 lines on one graph).

*Conclusions (Summary of Experiment, Analysis of Data, Discussion of Error) - 10 Points*

Write your conclusion on the back of your graph paper.

*Questions (complete sentences) - 5 Points Each*

1. You own a bakery and your customers are complaining that your bread is too dense. How can you make your bread lighter?
2. Certain types of bacteria thrive in conditions that lack oxygen. What does this indicate about the way they obtain energy?
3. Would individuals who carry out regular aerobic exercise suffer less muscle discomfort during intense exercise than other individuals? Briefly describe an experiment that could answer this question.
4. To function properly, heart muscle cells require a steady supply of oxygen. After a heart attack, small amounts of lactic acid are present. What does this evidence suggest about the nature of a heart attack?
5. The alcohol content of most wines is about 12%. The alcohol is produced by the fermentation of the natural sugar in grape juice by yeast. What might explain why the alcohol content is not higher?
6. If aerobic (oxygen-utilizing) organisms are so much more efficient than anaerobes in converting energy, why are anaerobes left on this planet? Why didn't they all become extinct long ago?
7. Why was it important in step 6 of the procedure to make sure that there were no bubbles in the tube (2 answers)?