

Tips for Writing an AP Biology Essay: Experiment Questions

Ten things to include if asked to design or describe an experiment:

1. problem statement
2. hypothesis – If/then statement
3. identify independent variable(s) – what treatment(s) you will apply, etc.
4. identify dependent variable(s) – what you will measure
5. identify several variables to be controlled (**very important**)
6. describe organism / materials / apparatus to be used
7. describe what you will actually do (how you will apply the treatment)
8. describe how you will take & record data
9. describe how you will analyze data (graphs, charts)
10. state how you will draw a conclusion (compare results to hypothesis)

Making Graphs

- a. set up with the independent variable along the x-axis and the dependent variable along the y
- b. mark off axes in equal increments and label with proper units
- c. plot points and attempt to sketch in the curve (line)
- d. if more than one curve is plotted, write a label on each curve
- e. give your graph a title

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