

BIOLOGY SOL REVIEW SHEET

SOL TEST DATE MON, AUG. 2, 2010

- NEED ANSWERS TO THIS REVIEW? GO TO http://teacherweb.com/VA/WarwickHS/Willis_T/photo1.aspx
- CLICK ON "MISCELLANEOUS" TO THE LEFT.
- CLICK ON "BIOLOGY SOL REVIEW SHEET ANSWERS 2010"
- ANSWERS WILL BE POSTED BY 12PM FRIDAY, JULY 29, 2010

I. Scientific Investigation

A. Scientific Method

1.Steps of the scientific Method

- ___PROBLEM/QUESTION___
- OBSERVATION/RESEARCH_____
- ___FORM A HYPOTHESIS___
- ___CONDUCT EXPERIMENT (TO TEST YOUR HYPOTHESIS___
- ___COLLECT AND ANALYZE YOUR RESULTS___
- ___FORM A CONCLUSION___

2._OBSERVATION_- act of gathering information about a system or environment using one or more of the five senses.

3. _INFERENCE_- a conclusion based on prior knowledge or information.

4._HYPOTHESIS_- "educated guess" or predicted solution to a problem

5._VARIABLES_- factors that change and can be measured in the experiment.

6._IV_- the variable that you change on purpose.

7._DV_- The variable that changes as a result of changing the I.V.

8._CONTROL_- A standard against which experimental results can be measured.

9._CONSTANT___- Things that are kept the same in the experiment.

B. Graphing

10.Each graph consists of a vertical axis that intersects a horizontal axis at the ___ORIGIN POINT___.

11. The ___INDEPENDENT VARIABLE___ variable is recorded on the horizontal or x-axis.

12.The ___DEPENDENT VARIABLE___ variable is recorded on the vertical or y-axis.

13.There are four types of relationships in a line graph

- Direct relationship- as the I.V. increases the D.V. INCREASES.