

## 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](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\_\_\_.