

Name _____

Biology 102 Spring 2008

Sec. # _____

Lab 12: Animal Behavior

*Note – when necessary, please answer questions on a separate sheet of paper (typed) and attach it to this assignment before turning it in.

I. *Terrestrial Isopods*: Refer back to your second experiment (student design).

A. (1 pt.) State the *hypothesis* of your experiment:

B. (1 pt.) Briefly outline your procedure (experimental design):

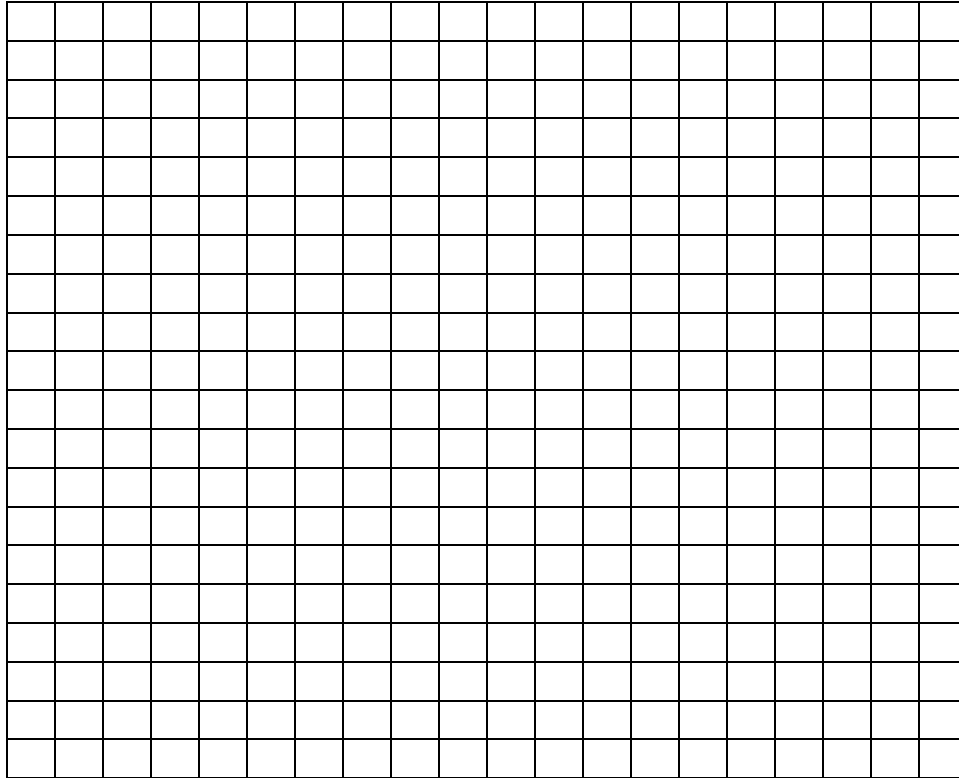
C. (1 pt.) Complete Table 2

Table 2. Observations of Pillbug Behavior in Response to: _____

Time (min.)			Other Notes and Observations
0			
0.5			
1.0			
1.5			
2.0			
2.5			
3.0			
3.5			
4.0			
4.5			
5.0			
5.5			
6.0			
6.5			
7.0			
7.5			
8.0			
8.5			
9.0			
9.5			
10.0			

- C. Plot the information above on Fig. 2 (2 pts). Use 2 colors for the lines and provide a Key as to what these represent.

Figure 2. (title of graph→) _____



For this graph:

The (x-axis) **independent variable** is (1 pt.) _____.

The (y-axis) **dependent variable** is (1 pt.) _____.

- D. Conclusions (3 pts.): In a few sentences, summarize the data you collected. Were there any noticeable trends? Did your results verify your hypothesis? Do you believe your experimental design was sound, or (if you could) would you go back and do it differently?

II. Betta Behavior: From the pooled class data that was discussed in lab, address the following questions in your own words and in complete sentences. This should be written as a short but cohesive paragraph.

- (0.5 pt.) Which stimuli resulted in the greatest and least (or no) response?
- (0.5 pt.) How important is it that the color of the model (fish or shape) matches that of the live fish?
- (0.5 pt.) Did the white paper models cause any responses, and if so what?
- (0.5 pt.) If you did not see a response that you expected for a particular stimulus, explain what factor(s) might account for this.