Name _____Block _____Date _____

Isopod Behavior Lab – Experimental Design Guide

Beginning of the cycle of scientific thought
Question:

Hypothesis:

Why do you believe your hypothesis is true?

Designing an investigation
Materials:

Identifying Variables

- Independent variable:
- Dependent variable:

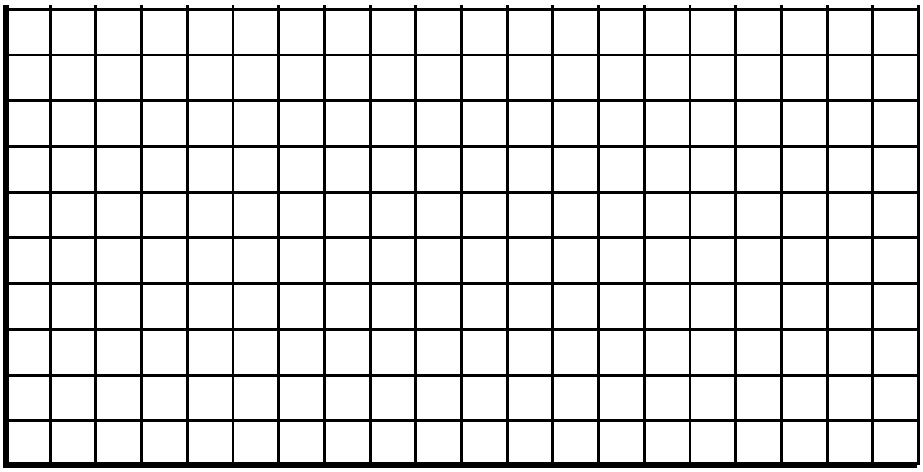
Designing a Control Group? - What will serve as a good comparison group?

Identifying Constants - What factors will stay the same? List at least three.

Collecting and Presenting Data
Data Table:

Time	Number of Isopods			Other observations
	Left side:	Center:	Right side:	
0 sec				
30 sec				
1 min				
1 min 30 sec				
2 min				
2 min 30 sec				
3 min				
3 min 30 sec				
4 min				
4 min 30 sec				
5 min				

Graph:



Analyzing and Interpreting Results

Conclusion – Claim, Evidence, and Reasoning

- Organize the essential parts of your conclusion into the graphic organizer below:

Claim (Answer your original scientific question.)	
Evidence (Summarize *data*. Include important details.)	**Reasoning** (*Explain why* your evidence supports your claim. Explain why these results make sense to you or explain why you think these results are surprising.)