NATURE®

NAME: _____

DATE: _____

Isopod Experiment Assessment Rubric

	Criterion **(Scoring rubric: 1= element is missing; 2= minimally satisfies; 3=partially satisfies; 4=mostly satisfies; 5= fully satisfies)**	**Score, from 1-5**
1.	Is the **research question** plausible? Does it make an inquiry that can be tested by a classroom experiment?	
2.	Is the **research question** informed by student research and observation of the subject?	
3.	Is the **hypothesis** worded as a statement?	
4.	Is the **hypothesis** a reasonable and educated guess that pertains to the research question? Does it reflect research of the subject?	
5.	Are the **independent** and **dependent variables** correctly named?	
6.	Are at least two **factors that must remain constant** correctly identified?	
7.	Is the **materials** list comprehensive of the materials used in the experiment?	
8.	Are quantities of the various **materials** specified?	
9.	Is the **procedure** written in numbered steps?	
10.	Is every step of the experiment's **procedure** listed?	
11.	Does the **procedure** clearly explain the protocol (could another conduct the experiment based on the description)?	
12.	Does the **procedure** seem scientifically plausible – will it accurately test one variable while minimizing confounding variables?	
13.	Is all the experimental **data** that was collected included in the report?	
14.	Is **data** included for control as well as experimental groups?	
15.	Is **data** included from multiple trials of the experiment conducted according to an identical procedure?	
16.	Are charts, graphs, or other visual aids used to visually present analyzed **results**?	
17.	Are the calculations correct? Do the calculations and graphs offer accurate analyses of the **results**?	
18.	Is the **conclusion** written clearly in narrative form?	
19.	Does the **conclusion** clearly indicate how the results do or do not support the hypothesis?	
20.	Does the **conclusion** address experimental error or other errors that may have occurred, and make suggestions for future research?	

Total (maximum: 100)_____