**Lab Report Format:**

All content is from the Bio11 lab manual, page 125-127

**Format:**

* Double Spaced
* Stapled (Upper Left)
* Follows the following format
* Paragraph form

**Sections:**

1. **Cover Sheet**

**Cover Sheet:**

Name(s): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

LAB Section: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Skip 10 lines*

Title (should be descriptive)

**Body of the Report:**

Title of Section (centered or left at the top of each page)

**2. Results**: (Show your Data)

* In a paragraph, Describe/discuss your results.
	+ How does your data compare to class ave.
	+ What trends did you see
	+ What did the data show?
* Graph the data to visualize it
	+ Title
	+ X Axis – Independent Variable (label, units, even increments)
	+ Y Axis - Dependent Variable (label, units, even increments)
	+ Include a sentence that describes the TRENDS you see in each graph

Example:

The Effect of Egg Weight on Hatchling Weight

* 
* Graph 1. —The relationship of initial egg mass to wet hatchling mass in *Emys marmorata. A*  line graph showing that larger eggs produced larger  hatchlings.
* Diagram (not mandatory)
	+ Include a sentence that describes each graph

**3. Discussion**: (Discuss your data and the experiment)

* Why did we measure respiration rate, when we really wanted to calculate cell respiration?
* Discuss trends seen in data.
	+ Connect the trends to the effect of water temperature on cellular respiration.
* How does your data compare to the class averages?
* What did you think of your results?
	+ Are they what you anticipated in the beginning when you made your hypothesis?
* Any problems with the experiment? (Human error, miscalculations etc.)
	+ Was some of the data bad? Explain why? Did you keep it or throw it out (calculate the averages without it?)

**4. Thought Questions from Lab:**

* ANSWER QUESITONS FROM LAB

Attach rubric to front: Rubric

**Lab Report Rubric:**

|  |  |  |
| --- | --- | --- |
| **Pts** | **Points Possible**  | **Section**  |
|  | /2 | **0. Format:** * Double Spaced
* Stapled (Upper Left)
 | * Headers for each section
* Follows the following format
* Paragraph form
 |
|  | /1 | **1. Cover Page** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_LAB Section: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*Skip 10 lines* Title (should be descriptive)  |
|  | /7 | **2. Results**: (*Show your Data)* * In a paragraph, Describe/discuss your results.
	+ How does your data compare to class ave.
	+ What trends did you see
	+ What did the data show?
 | * Graph the data to visualize it
	+ Title, X Axis, Y Axis, units
		- Include a sentence that describes the **trend** you see each graph and data table
 |
|  | /7 | **3. Discussion**: *(Discuss your data and the experiment)* * **How were we using breaths to actually measure cell respiration?**
* Discuss trends seen in data. (Connect the trends to the effect of water temperature on cellular respiration)
* How does your data compare to the class averages?
* What did you think of your results?
	+ Are they what you anticipated in the beginning when you made your hypothesis?
* Any problems with the experiment? (Human error, miscalculations etc.)
	+ Was some of the data bad? Explain why? Did you keep it or throw it out (calculate the averages without it?)
 |
|  | /3 | **4. Discussion Questions**: * ANSWER QUESITONS FROM LAB

|  |  |  |
| --- | --- | --- |
| Why take three rates  | Why take data from class  | Correlation between Water temp & Resp. Rate - Explain trend |
| What other factors affect resp rate?- How is that advantageous? | Control?  | Sources of error |

 |
| **Total Points:** **/20**A=20-18 B= 17-16 C= 15-14 D= 13-12 F=11 & below |