**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:**

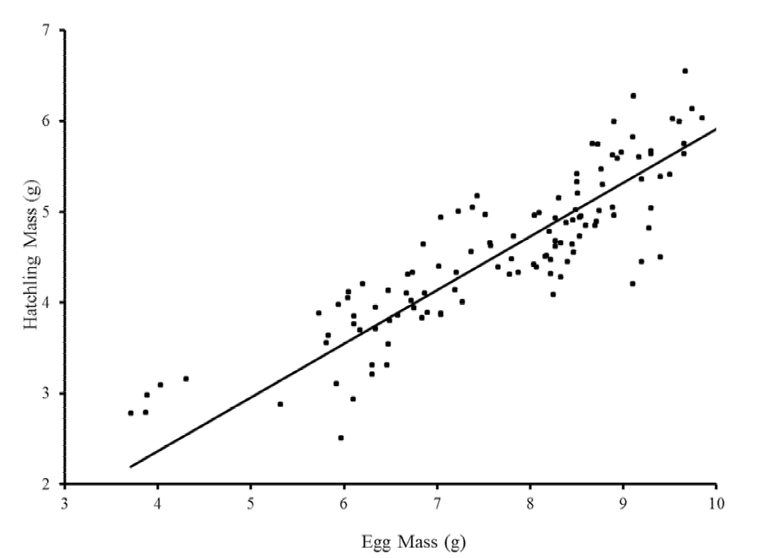
Title of Section (centered or left at the top of each page)

**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 | | | |