# 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.
   o How does your data compare to class ave.
   o What trends did you see
   o What did the data show?
☐ Graph the data to visualize it
   o Title
   o X Axis – Independent Variable (label, units, even increments)
   o Y Axis  - Dependent Variable (label, units, even increments)
   o 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)
   o 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** | | |
| | | *Skip 10 lines* Title (should be descriptive) | Name: _____ LAB Section: _____ Date: _____ | |
| | /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 |