Name Period Date

**Heart Rate Lab /25**

**STARTER:** Make a list of ways you can change your heart rate (how fast your heart beats). (5 pts.)

**Lab Procedures:**

Listen carefully to the instructions on how to use the heart rate monitor and the BTB solution

Come up with a question about heart rate that can be answered by conducting an experiment

Design your experiment so that you have a “normal” to compare to (called a control) and are only changing one variable at a time

Carry out your experiment using safe lab practices and record your data in a data table

State a conclusion that is supported by your data

Heart Rate Lab Report Grading Rubric (15 pts. Possible)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Criteria | 0 | 1 | 2 | 3 |
| Problem | Question being answered is not present on the lab report | Question being answered is on the lab report | Question being answered is on the lab report and is mostly well written | Question being answered is on the lab report and is well written |
| Variables | 4 or more variables were tested | 3 variables were tested at one time | 2 variables were tested at a time | One variable was tested at a time |
| Control | No control was used | Control was somewhat effective in providing a comparison | Control was mostly effective in providing a comparison | Control was effective in providing a comparison |
|  Data Table | No organized data table | Somewhat organized data table | Mostly organized data table | Very well organized data table |
| Conclusion | No conclusion | Conclusion is stated but is not supported by data from the results | Conclusion is mostly supported by data from the results | Conclusion is supported by data from the results |

Question:

Control:

Data Table:

Conclusion

Notes from discussion on how heart rate and cell respiration are related: (5 pts.)