**Water Quality Lab Rubric**

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| **SECTION** | **POINT VALUE** | **VALUE EARNED** |
| ***General***:  Full Name Legible  Title of Lab Relevant to Lab  Date of Lab Investigation Evident  Lab Sections Clearly Defined  Legible Font  Appropriate Formatting  Grammar  Written in paragraph form (not numbered) | 1  1  1  1  1  1  1  1 |  |
| ***Abstract***:  Explains the purpose of the lab  Includes general overview of lab  Includes major findings of report | 2  2  2 |  |
| ***Introduction***:  Answers all of the following:   * Why rain is slightly acidic * Why oxygen demanding wastes are pollutants * How BOD and DO relate * How sedimentation occurs * Impact of sedimentation on aquatic species * Impact of water temperatures on aquatic species   Is well constructed/has good flow  Explains the importance of the lab with relation to measuring water quality | 1  1  1  1  1  1  2  2 |  |
| ***Data Table:***  Includes all data for Test Results  Includes all Quantitative & Qualitative Values | 19  13 |  |
| ***Calculations***:  Includes calculation for WQI – formula & answer  Includes calculator for CVI – formula & answer | 3  3 |  |
| ***Conclusion***:  Answers the following:   * Clearly states water quality rating * Explains overall pond assessment related to WQI * Explains what test has greatest impact on WQ rating * Indicates realistic source for high nitrate levels * Explains realistic sources of high turbidity * Identifies two causes of a high temperature differences * Indicates a problem associated with high temperatures * Explain why fecal coliform was not tested for * Explains importance and results of iron test * Explains importance and results of copper test * Explains importance and results of alkalinity test * Explains importance and results of hardness test * Explain why indicator species are important * Explain why indicators are a good measure of WQ * Compares WQI with Cumulative Index Value   Is well constructed/has good flow  Explains the importance of the results with relation to water quality | 1  2  2  1  2  2  1  2  2  2  2  2  2  2  2  2  2 |  |
| ***Sources/Bibliography:***  Proper citation format (APA)  Cites Lab Worksheet  Cites Reference for indicator species  Cites Reference for chemical tests  Cites other sources used (1 point for each additional source up to 3 sources) | 1  1  1  1  3 |  |
| TOTAL | 100 |  |

**The lab should be handwritten in blue or black ink. Only graphs and data tables may be printed.**

**Formal lab report paper MUST be handed in before the bell rings for the start of the period on Monday, December 11, 2017.**