**Frog Pond Ecosystem Field Study**

For this project you will present your field studies research. The information for this project has been gathered after numerous class visits to the frog pond in the school grounds since the beginning of the quarter.

You will turn in your finished report on **Monday June 3rd**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Guide**  **Attribute** | **Description of the Attribute** | **Points Possible** | **Points**  **Earned** |
| **Pond description** | Introduction to the project.  Illustration or Photograph | 5 |  |
| **Field Study Observation Notes** | Type up a summary of the observations. Include:   * First and last observation including dates and times. * Changes in the pond over time and explain WHY. * Changes in the pond depending on time of day explain WHY   Include **data** and information from your notes. | 10 |  |
| **Physical data** | Include the physical data table. Explain which abiotic and /or biotic factor is the most limiting factor in this ecosystem. Give evidence.  Describe the evidence of impacts on the populations. (use data) | 10 |  |
| **Food Web** | Draw a layered food web showing the flow of energy in your ecosystem. All connections must be included. (illustrated) | 10 |  |
| **Dissolved oxygen** | Write a proposal for improving the DO content in the pond following the Engineering Design Process ( research, explore, propose solution) | 10 |  |
| **Quality of work** | Overall field guide appearance, evidence of time and effort. | 5 |  |
| TOTAL | | 50 |  |

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