**Benchmark #1** Research

Introduction of the Ecosystem in a Bottle:

**Requirements**

* Project will require a written portion including the procedure, hypothesis, detailed observation record, table, graph, Venn diagram, conclusion, and bibliography.
* Students that are working together in a team will evaluate each other regarding teamwork and group participation.

**Research**

I. What does an ecosystem need to survive?

IV. What is a closed ecosystem

II. Specific organism requirements? (placement, additional substrates, etc.)

|  |  |  |
| --- | --- | --- |
| Organism | **Needs** | **How you will meet the need** |
| **General** |  |  |
| **Cloud Fish** |  |  |
| **Elodea** |  |  |

III. Tests

|  |  |  |  |
| --- | --- | --- | --- |
| Test | **What is it** | **How can we test it?** | **What levels do we want** |
| **nitrates** |  |  |  |
| **nitrites** |  |  |  |
| **pH** |  |  |  |
| **hardness** |  |  |  |
| **alkalinity** |  |  |  |
| **temperature** |  |  |  |