Environmental Systems and Societies

*Chlorophyll Extraction Lab Internal Assessment*

**Learning Goal:** You will gain an understanding of how light energy is absorbed and converted to chemical energy that will power an ecosystem.

**Success Criteria:** You will create a data table and graph and use that information to answer questions about photosynthesis.

**To Do:**

* Step one: collect the data from each group and organize it into a data table.
* Step two: process the data.
* Step three: graph the processed data.
* Step four: answer the questions.
* Upload to Managebac by Monday at midnight—October 28th

**Rubric for Data collection and processing (DCP)**

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| --- | --- | --- | --- |
| *Criteria* and **Aspects** | *Complete* / 2 | *Partial* / 1 | *Not at all* / 0 |
| **Aspect 1**Recording data(Data tables) | Systematically records appropriate quantitative and/or qualitative data, including units. | Records appropriate quantitative and/or qualitative data but with some mistakes and /or omissions. | Data is not recorded or is recorded incomprehensibly. |
| **Aspect 2**Processing data(Statistical Analysis) | Processes primary and/or secondary data correctly. | Processes primary and /or secondary data but with some mistakes and/or omissions. | No processing of data is carried out or major mistakes are made in processing. |
| **Aspect 3**Presenting processed data(Graphing) | Presents processed data appropriately and effectively to assist analysis. | Presents processed data appropriately but lacks clarity or with some mistakes and/or omissions. | Presents processed data inappropriately or incomprehensibly. |

**Questions:**

* What does the graph tell you about light, chlorophyll and glucose production?
* Why are plants’ leaves green?
* If you were setting up a greenhouse, what colored lights would you use and why?