11. Oxygen from Plants

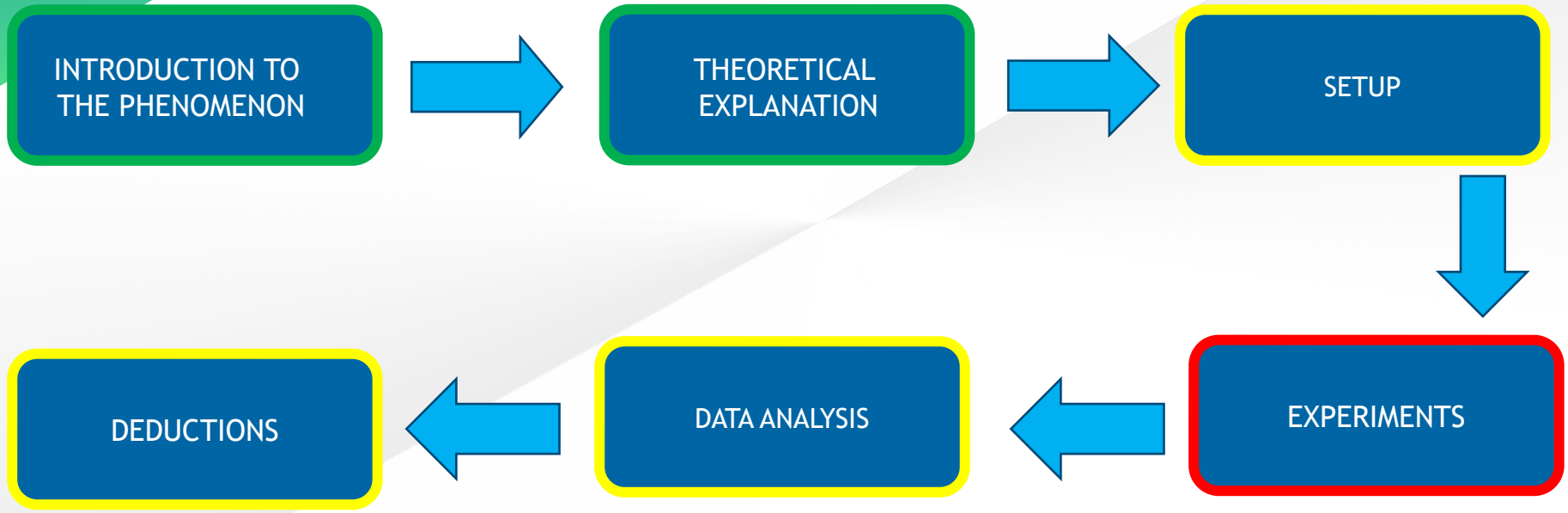
OPPOSITION

Anthi Markaki

Greece - Alliance

I.Y.N.T. 2021

General outline of the presentation



Needs improvement Average Good

Theory

Pros:

1. Good explanation of the theory (Chemical equation of photosynthesis)
2. Included an explanation related to the light dependent and independent reactions.
3. Sufficient theoretical support of the results
4. Included some relevant parameters
5. Interesting approach of the problem
6. Visual aid to make us understand the theory better

Cons:

1. Did not include an analysis for the specific plants used in the experimental procedure.
2. Did not include a “predictive” theory about them.

Experiment & Results

Pros:

1. Included the error estimation in her graphs.
2. Checked the parameter of the distance of the light to the plants.
3. There was a connection between her theory and experiments.

Cons:

1. Did not include any hypothesis to support her experimental procedure.
2. Did not experiment with different colors, a really significant parameter that could have altered the results.
3. Did not experiment with other
4. Did not refer to the sensors used in order to be able to measure the light intensity.
5. Did not refer to the environmental conditions and their role (ambient temperature, humidity,..)

Suggestions for further Improvement

1. Check the environmental conditions (temperature & humidity)
2. Explain the reasons behind your errors of your experiments.
3. Try different colors as they serve a significant role to the outcome.
4. Include a clear hypothesis based on your theoretical background in order to be able to “predict” your results.
5. Include a theory related to the specific plants used in the experimental part.

Discussion

Greece - Alliance