



Problem No.26 - Steamed Up Mirror

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Hellenic Physical Society
I.Y.N.T. - 2020

Reporter's Theory - Pros & Cons

1. Excellent definition of the phenomenon
2. Well-structured presentation
3. Sufficient theoretical support of the results

1. Missed important variables like the speed of the breath, the amount of th fog etc
2. Not sufficient theoretical support to justify the results

Experiment - Pros & Cons

1. Clear hypothesis
2. Interesting results
3. Clear conclusions
4. Presence of visual aid

1. Not enough parameters tested
2. Experiments conducted in a non-controlled environment
3. No method explained
4. Not enough data presented
5. Tables but no graphs.
6. Inaccurate results.
7. Conclusions not explained by theory



Theory vs Experiment - Pros & Cons

1. Interesting results, led to important conclusions
2. Sufficient theory

1. Poor speaking skills.
2. Not enough data presented to support the conclusions.
3. Jumped to unjustified conclusions
4. Not enough parameters tested.
5. Could not answer to my questions.

Conclusions

1. Well-defined almost all of the relevant theory
2. Excellent definition of the phenomenon
3. Didn't mention the importance of several parameters.
4. A lot of significant variables were missed
5. Experiments were properly shown
6. Causes of errors in the measurements explained
7. Not clear how conclusions are justified by the theory
8. More experiments needed

Suggestions for further improvement

- Examine the theory in more detail to understand the significance of other parameters to the outcome
- Try to find a more accurate mechanism
- Perform more experiments in order to test more parameters
- Take more measurements per experiment



Thank you for your attention !

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