



Opposition - Problem No.8

Magnet and matchstick

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Reporter's Theory - Pros & Cons

1. Excellent definition of the phenomenon.
2. Sufficient theoretical support of the results.
3. Included relevant parameters.
4. Presence of visual aid (video/photos)
5. Well defined almost all of the parameters

1. Theory wasn't relevant to the phenomenon and insisted way too much on it
2. Irrelevant equations
3. Chaotic presentation, lacks of structure & couldn't be fully understood and it was confusing
4. Missed important variables like the type of the magnets, humidity
5. Not sufficient theoretical support to justify the results.
6. parameters weren't included
7. too much theory
8. Lack of the reference to the Possible Errors.

Experiment - Pros & Cons

1. Well conducted experiments.
2. Interesting Results.
3. visual aid

1. Hypothesis didn't exist
2. No graphs
3. Not enough parameters tested.
4. Experiments conducted in a non-controlled environment
5. Results not presented
6. Unclear method
7. No errors explained.
8. Not enough data presented.
9. Used only one type of magnet

Theory vs Experiment - Pros & Cons

1. Well conducted experiment



1. Not enough data presented and as a result he didn't support any conclusions/results
2. No hypotheses included

Conclusions

1. Well-defined almost all of the relevant theory.
2. Didn't mention the importance of the iron concentration
3. Experiments were properly conducted and shown.
4. Atmospheric conditions were not tested.
5. Causes of errors & errors themselves in the measurements have not been explained.
6. Not clear how conclusions are justified by the experimental results.
7. No hypotheses were included
8. More experiments needed for revealing the dependence of air humidity to the burning of the match.

Suggestions for further improvement

1. Add hypotheses
2. Test more parameters
3. Less time on irrelevant theory
4. Explain the reasons behind your errors in your measurements.
5. Perform more experiments in order to make your experiment even more valid.
6. Add graphs
7. Take more measurements per experiment so you can see the points of interest that appear in the graphs.
8. Include more magnets to test more parameters



YOU ALL

FOR

YOUR ATTENTION