



# Review - Problem No.11

## Hydrogen Release

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# Reporter - Pros & Cons

1. Presence of visual aid & demonstrations.

1. Unclear definitions.
2. Cluttered slides
3. No theory and graphs.
4. Lack of hypotheses.
5. Experiments conducted in a non-controlled environment.
6. Unclear method
7. No errors and reasons behind them explained.
8. Lack of significant parameters such as salt concentration, temperature, pH, kinds of salt.
9. 1st experiment irrelevant to the problem statement.
10. the balloon is not suitable to count hydrogen
11. Aluminium wire is not pure Al

# Opponent - Pros & Cons

1. He noticed there was no measurement of the surface area of the aluminum.
2. Structured presentation
3. Noticed missing formulas for H<sub>2</sub> volume
4. Noticed that the reporter didn't use more salts
5. Noticed missing graphs

1. He didn't notice that the addition was of alloys instead of pure aluminium.
2. Missed huge error in 1st experiment.
3. He didn't insist on the reasons behind the errors in the experiments.
4. He didn't mention the missing parameters, such as the concentration of salts.
5. Insist too much on parameters that were not tested.

# REPORTER VS OPPONENT - POINTS DISCUSSED

## Reporter



1. Did not answer
2. Did not answer

## Opponent



1. Asked if the reporter calculated the surface area of aluminium
2. Asked what are the different types of salts the reporter could use



# *Our opinion*

----> Opponent is Right

1. We think that all of the aforementioned parameters are something really important to be calculated.



# Conclusions

## Reporter :

1. **Not justified assumption about the reaction**
2. **Clear definition**
3. **Uncontrolled parameter of temperature**
4. **No possible errors, low accuracy**
5. **Irrelevant experiment**
6. **didn't answer the question proposed in the problem**

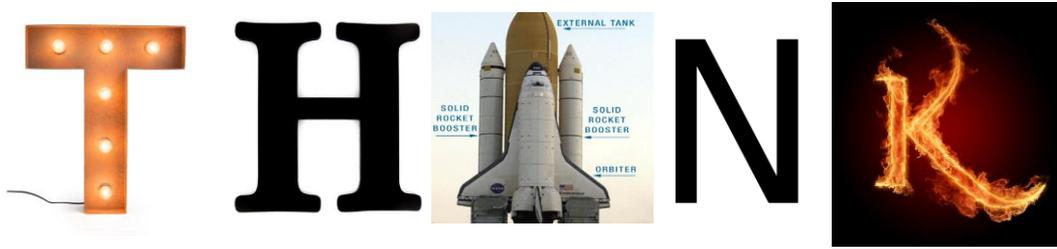
## Opponent :

1. **Understood the experimental procedure**
2. **Asked relevant and significant questions about the types of salts.**
3. **Good time management**
4. **Didn't insist on parameters that were tested**

# Suggestions for further improvement

Examine the phenomenon in more detail in order to observe the reaction

It is not possible for the reaction from the problem statement to be observed because the reporter did not add pure aluminium, so we suggest her to make her experiment happen with pure aluminum.



YOU **ALL**

FOR

YOUR ATTENTION