

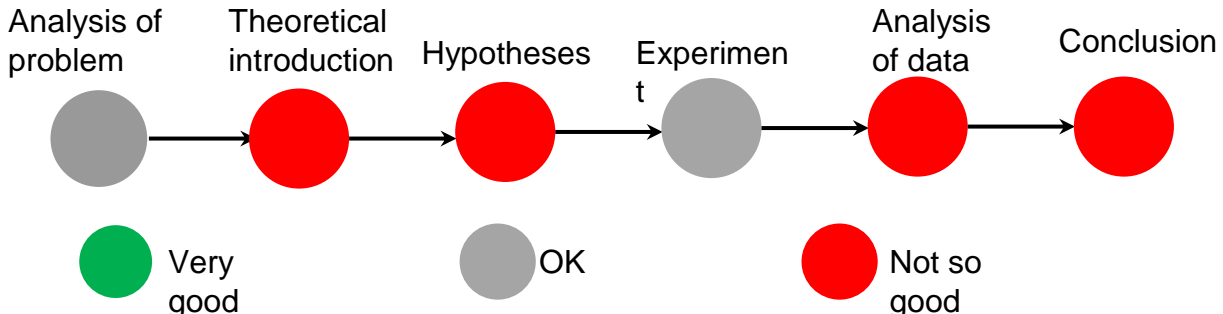
11. HYDROGEN RELEASE

Team Croatia
Reviewer: Marko Drozdek



REPORTER

- No theory behind the phenomenon
- Incorrect reaction $\rightarrow 2\text{NaCl} + \text{CuSO}_4 \rightarrow \text{Na}_2\text{SO}_4 + \text{CuCl}_2$
- showed experimental plan and set-up
 - but poorly explained
- No theoretical base for hypotheses (no source?)
- Said that he measured the temperature in Celsius but had the symbol T?
- Graphical results but - poorly explained them
- Do his results correlate with the hypothesis and theoretical models?
- No clear conclusions
- No error bars
- No shown proof of repetition
- Lack of control



OPPONENT

- Questioned possibility of reactivity
- asked about effect of the temperature on reaction
 - noticed possible errors in controlling the temperature
 - noticed lack of errors, slope analysis, quantitative
- Noticed the lack of theory and the incorrect formula
- Did not notice that the hypotheses were not proved or denied

important error

-missed lack of repetitions and error bars

- did not question if the temperature was stable
- measuring temperature not questioned
- duration of the exp too

DISCUSSION

- Discussed Aluminum forming a layer of oxide and therefore lesser possibility of immediate reaction
 - needs the oxide layer destroyed
 - reporter did not derive any conclusion or improvement
- Hydrogen volume experimental measurement
 - opponent presented a valid question but could get no conclusion from the reported
- Copper role
 - opponent presented a valid question but there was again no conclusion
- opponent did a very good job of questioning but could very few relevant answers

THANK YOU!

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