

12. Zinc layers

Team Croatia

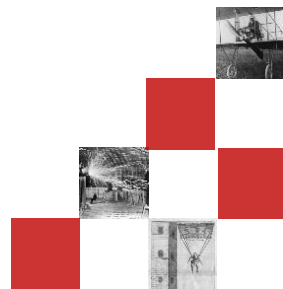
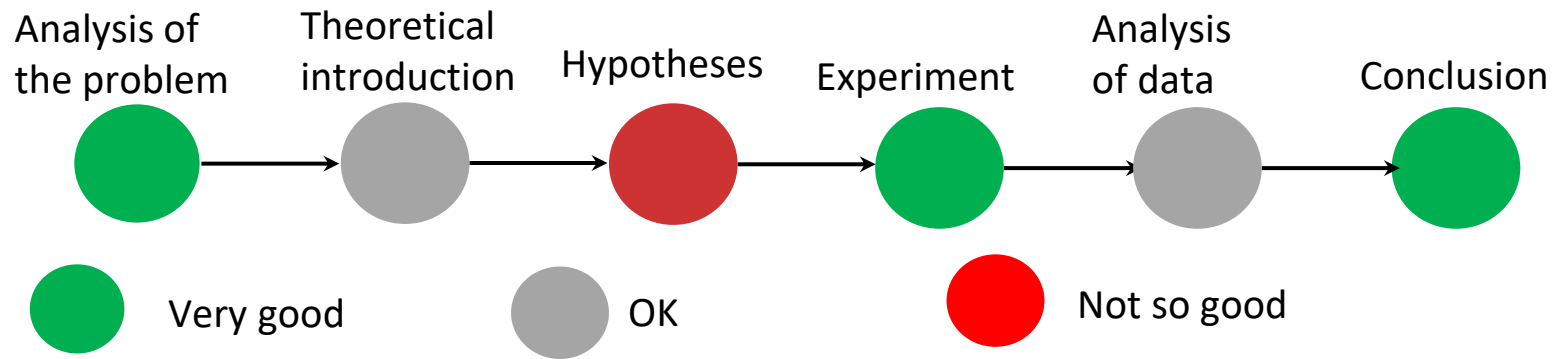
Reviewer: Đurđica Kovačić



Reporter

- mentioned reduction, electron change and reduction
- **mentioned removing the brass alloy**
- **calculated the thickness - the coin is not completely smooth**
 - possible errors
 - did not mention even coating
- just put the coin at the bottom of the beaker
 - measured temperature is the one of the solution -> at the bottom it's higher
- **no clear hypotheses**
 - had them for the second experiment
- **graphical results**
 - did not mention repetitions
 - had a fit formula
 - error bars?
 - did not explain graphs at all
- **used multiple coins and metals**
- **no quantitative results** for the second experiment!
- did not mention what determines the solubility of the coin
- did not mention if the layer is just zinc

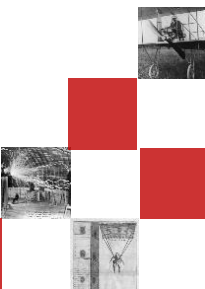
conclusion -> problem not well explained and executed



Opponent

- asked about **the density of the coin - disagree with the opponent**
 - no formula for it
- asked about the coin diameter
- asked if he could have used more metals - **discussion questions**
- **did not ask good clarifying questions!**
 - repetitions, errors, analysis of the second experiment
- stated that nickel is dissolved -> **false**
 - **not dissolved, just oxidized - is not soluble in water**
- noticed that theory was **not clearly explained**
- noticed the **lack of hypotheses**, error bar, lack of pure metals
- did not notice the assumption of even coating and smooth surface for calculating thickness
- humidity - reported explained how he cleaned the coins - **not relevant**
 - not a problem when placed in water!
- had suggestions -> discussion

conclusion -> opponent did not ask good clarifying questions but had a good opposition



Discussion

- Reporter asked about zinc concentration
 - important question, the reporter did not have a good answer
 - agree with the opponent -> affects the results
- Asked about testing other metals as alloys
 - **agree with the opponent - the reporter's coins are alloys**
 - **no clear conclusion**

Asked about their errors

- the reporter did not state possible errors
- no errors shown - disagree with the reporter

The opponent asked good questions but had no clear conclusions



Thank you!

Team Croatia

Reviewer: Đurđica Kovačić

