9. Salt and ice

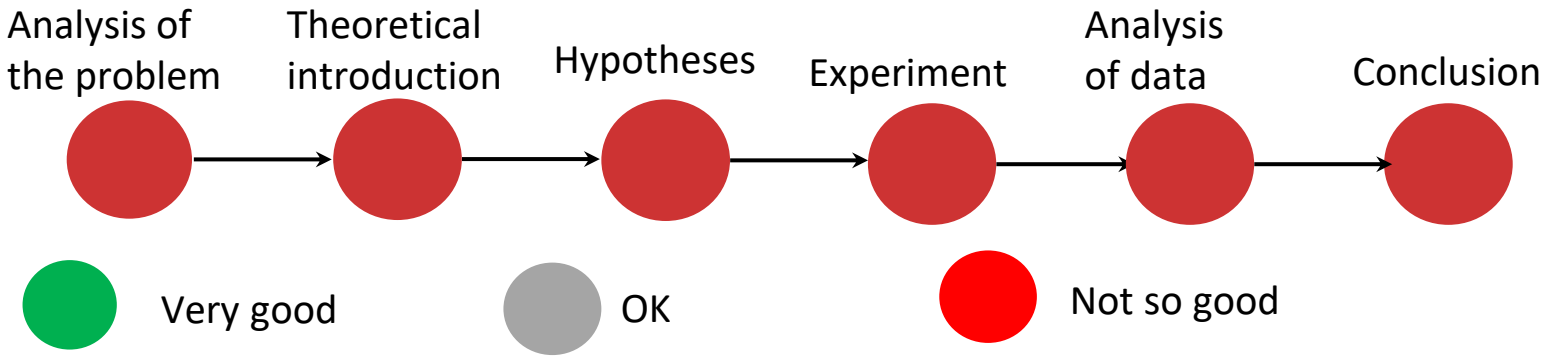
Team Croatia

Reviewer: Stipe Popović

Reporter

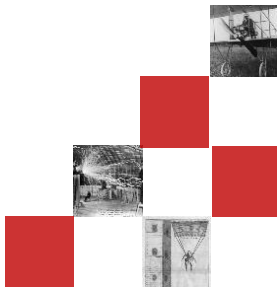
- analyzed problem statement poorly
- **change in melting point** - stated - explanation??
  - did not mention the **freezing point depression**
  - did not mention egzo/endothermic reactions -> important for the salts he used
- theory poorly mentioned and explained - not connected to the experiment
- **no hypotheses**
- **experimental setup completely unclear**
  - did he measure the temperature of the solution?
  - just one method or more?
  - repetitions?
  - sample size - only 3 salts and no other parameters
- did not explain **solubility**
- did not measure the **efficiency** of melting ice -> missed problem
- no graphical results
  - had tables - not explained
  - unclear experimental setup -> unclear results

conclusion -> problem poorly explained and executed



Opponent

- asked about **impurities** in salts, asked about the temperature
- noticed the lack of theory
- noticed that the **temperature** was not mentioned and its importance
- said **melting point** is **not relevant**?! - point of the whole problem
- no clear experimental set up - agree
- noticed bad time management
- did **not** notice lack of **quantitative results** and graphs



Discussion

- Reporter asked about the type of salts that melts ice
    - no answer -> the reporter isn't familiar with basic theory melting point
- Asked about the time of ice melting -> crucial for **efficency**
    - no answer from the reporter

Asked about the solubility

- unclear answer from the reporter

Asked about impurities of salt and minimal temperature of ice melting

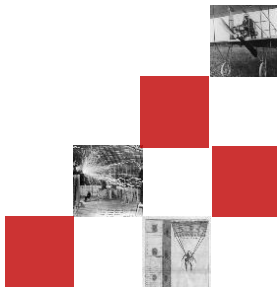
more important problems to discuss then impurities

e.g. explanation of the results

Asked about maximum lowering of the melting point temperature

agree with the opponent - eutectic temperature is an important parameter

Discussion poorly executed -> opponent focused mostly on theory and could not get answers



Thank you!

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