



21. Salty water

Reviewer:

Team Romania -
Limitless

Opponent:

Team Romania -
Limitless

Reporter:

Team Greece - Alliance

Task of the problem

What is the minimum concentration of sodium chloride in water solution such that a human detects the presence of salt? Use **double blind tasting** in your experiments.

Concentration of sodium chloride

- Theoretical information

Parameters: temperature, molar concentration

Reporter summary



Strong points

- Chemical explanation of the reaction
- Chemical Background of the salts
- Experimental setup was clearly presented
- Presence of hypothesis
- Reporter drew clear conclusions and drew clear hypothesis-result ties.
- Quantitative results presented

Weak points

- Presented the gender difference, but why does that actually happen?
- One of the girls suffered from COVID recently, that affects the experiment, how much?
- Lack of parameters (we would like to see more of the chemical properties such as water temperature, molar concentration)
- Didn't present the conditions under testing subjects were put
- Double blind tasting is missing ⇒ Task is partially completed

Opponent summary



Strong points

- Observed the lack of conditions that testing subjects were tested under
- Great suggestion of a theoretical anatomy aspects (clarifying questions)
- Proved a great understanding of the chemistry behind the phenomenon in the

Weak points

- Mentioned that the results were completely subjective, the test are based on human testing subjects
- Asked numerous hypothetical questions, could link more to other aspects that were present in the reporter's statement

Clashes during the fight

- O: Molar concentration or the mass percentage of salt is more important?

R: They are both important, but the most important is the concentration.

We: Agree with the reporter

- O: Do you think the water temperature is relevant?

R: I didn't study, but it is present in the hypothesis.

We: Water temperature is very important.

- O: Did testing subjects had affections in the past?

R: No difference in results.

We: Relevant to the topic, good question by the opponent

- O: Does the time you have your tongue in water relevant?

R: It is.