



9. Salt and ice

Team Nitro

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Statement of the problem:

Study the effectiveness of salt to melt ice cubes.

Theory

Pros:

Cons:

-3rd slide irrelevant(reformulated problem task)

- salt decreases, not increases the temperature of melting

-did not explain why the freezing point decreases, what is the role of the salt in melting ice

- did not explain why the salt dissolves in water

Overall:

Below average

Experiment

Pros:

+3 different types of salt

Cons:

- melting point of salt is irrelevant
- no photos of the experiment
- did not mention the external temperature, did not vary it;
- did not mention the lowest temperature for the salt still manage to melt ice;
- did not varied important parameters (discussion)

Overall:

Below average

Conclusions

Pros:

Cons:


- no clear conclusions
- said something about the solubility of the salts in water, it is not a conclusion based on the experiments
- no clear conclusions about the effectiveness of the salt melting ice
- bad time management overall
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Overall:

Below average

Discussion topics

- What kind of salt melts ice the best?
- How would different types of water influence the experiment?
- What is the effect of external temperature (minimum temperature at which salt still melts the ice?)
- Theory: why does the salt molecules melts water?
- About freezing point depression



DISCUSSION