

8. When dumplings rise

Team Croatia

Opponent: Borna Soukup



Problem statement

Frozen **dumplings sink** in water. However, they **rise** to the **surface** when cooked in **boiling water**. Are the dumplings ready once they **float**? Investigate this effect.

problem solved: fully, partially, not solved



The solution: Theory

Pros:

- mentioned the dumpling ingredients and chemical structure but did not connect it to the experiment

Cons:

- theory not connected to the experiment
 - too much unexplained informationmissed the theory about density - highly important
theory not connected to hypothesis



The solution: Experiment

Pros:

considered altitude

Cons:

- hypotheses were not explained or connected to the theory

used a toothpick to see if the dumplings were ready

the dumplings were not the same shape (affects density)

did not define what is “thick” or how did he measure it



The solution:

Results and conclusion

Pros:

- had graphical results

Cons:

- did not explain the quantitative data
 - did not spend enough time on the graphs

did not explain how did he measure “thickness”

did not connect the conclusion

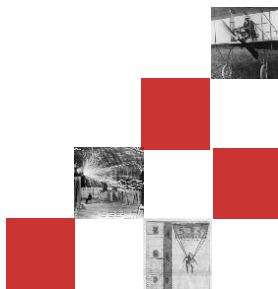


Points for discussion

- graph explanation
- how the percentage of cooking was determined
- store bought vs homemade dumplings
- determination of the percentage of cooking
- density and its effect
- what meat and vegetables did he use
 - their effect

shape of the dumplings

yeast and temperature



Thank you!

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