



8. When dumplings rise

Reviewer:

Team Romania - Limitless

Opponent:

Team Greece - Alliance

Reporter:

Team Bulgaria

Task of the problem

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.

Reporter summary



Strong points

- Relevant quantitative results were presented and well-built graphs appeared
- Physical process of sinking was presented (relation of densities)
- Experimental setup was clearly shown

Weak points

- Explanation of the whole phenomenon was not clearly presented
- Subjective decision upon the moment when dumplings were ready
- Importance of the receipt wasn't taken into account
- Final conclusion poorly defined
- Relevant parameters were not taken into consideration (water quantity, type of dumpling, size of dumplings)
- Lack of hypothesis

Opponent summary



Strong points

- Relevant clarifying questions
- The opponent noticed most of the errors and presented them, while also developing on them, providing additional insight.
- Good questions and hypothetical scenarios were proposed, showing deep understanding of the material.
- Interpretation was good
- Noticed lack of hypothesis

Weak points

- Temperature of the water is not relevant (attacked the reporter on this topic)
- Arduino sensor is not that relevant for water temperature (you can use a thermometer)
- Poor answer to the reviewers clarifying question

Clashes during the fight

- O: Did you take into account the water temperature?
R: Is not relevant.
We: Totally agree with the reporter.
- O: Size of the dumpling plays a significant role in the time of rising
R: The size of the dumpling is not relevant
We: Agree with the opponent
- O: What would have happened if the dumplings had more air inside?
R: Air inside doesn't matter
We: Agree with the reporter