

26. Balloon pressure

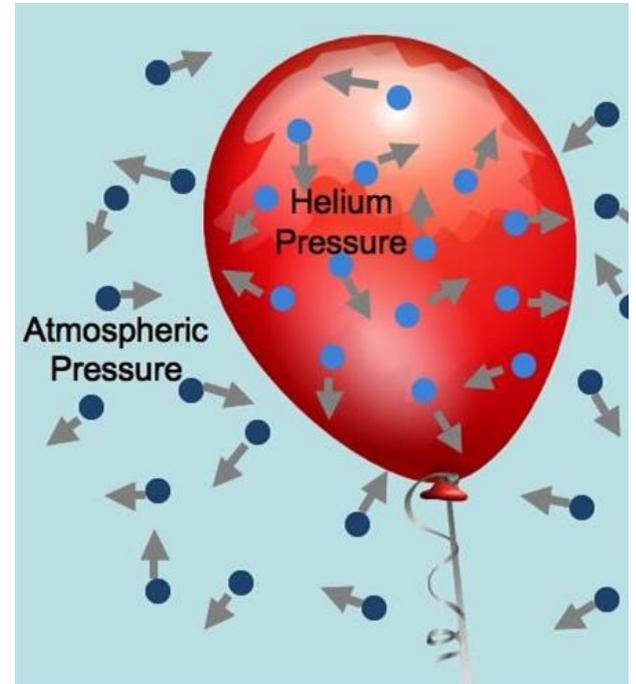
Reporter: Team Kazakhstan

Opponent: Team Croatia

Reviewer: Team Romania Starry Night

Problem's task

Determine the pressure of air inside an inflated balloon.



Reporter Summary



Strong points

- well organised slides
- thoroughness of the ideas presented and of the analysis
- Many parts of the presentation was interesting and engaging
- a well structured presentation, pitch compelling and persuasive
- good time management
- Explaining the formulas required by the experiment

Weak points

- not understanding the research
- results and conclusions stated, but not critically evaluated
- the experimental procedure didn't test the hypothesis, to see if is correct
- The most important variables weren't identified
- some points are missing
- not stating the limitations of the study/insufficient detailing of study limitations
- No explanation of set-up or materials
- The presentation didn't flow in a logical sequence
- Absence of a theoretical part
- No clear explanation of the experimental part
- Didn't finish the formula for the 1st experiment
- Sometimes used the time limit as an excuse

Opponent Summary



Strong points

- Analysing both strong and weak points of the reporter's presentation
- The ideas were formulated in a clear and concise manner

Weak points

- Some of the questions weren't relevant, given the purpose of this study
- Some of the critical evaluation wasn't detailed enough and it wasn't supported by valid arguments
- Vague observations
- Repeating their points of view

Clashes during the fight

- Opp: what did you measure
Rep: only the height of the water
Rew:
- Opp: did you vary the liquids
Rep: no
Rew: we agree with the opponent
- Opp: if you changed the balloon,
would you have different results
Rep: yes, but we didn't have much
time
Rew: we agree with both the
reporter and the opponent

Clarifying questions for the reporter and opponent

- Reporter: Which other methods do you think that you could use to calculate the pressure of air inside the balloon?
- How can you be sure that there weren't any environmental factors affecting the motion of the balloon? For example, the existence of a windy environment.
- Which are your possible sources of error
- What do you think would happen if you used other liquids

Opponent: what liquid would you have used and why

Which parameters would you have varied

You mentioned that the reporting team didn't do statistic based experiments...what would you statistically analyze for this problem