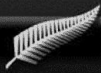


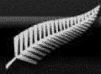
Tall Towers

Catherine Chen
New Zealand



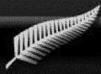
The Problem

A tower is built by stacking rectangular bricks on top of each other. Some people argue that the maximum height of the tower is limited by the human skill to place the bricks gently; others may say that the limiting factor is non-perfect shape of the bricks. Perform experiments to outline the factors that limit the maximum height of such a tower.



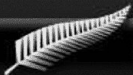
The Report

- Defining key terms
- Theory
- Hypothesis
- Experiment
- Data
- Graphs
- Conclusion



The Opposition

- Clarifying questions
- Discussion



Discussion

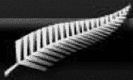
Opponent

- What experimental method to eliminate human error

Reporter

- Isn't in the problem statement

Our opinion: Both sides had weak arguments. We agree that eliminating human error would get a good reference.



Discussion

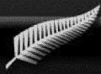
Opponent

- How does autism effect the hight of the building

Reporter

- Lowers dexterity

Our opinion: Reporter did not prove that there was any correlation between autism and their ability to stack the blocks. Also people with autism are different.

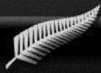


Points Missed

Friction of material surface

Centre of mass and gravity

Only investigated human skill - not meeting the scope of the problem statement



Clarifying Questions

Reporter

- Did you consider any other limiting factors other than human skill?
- How many trials did you do?
- Do you know where on the spectrum your participants lie and did you consider how this affects results?
- How does human error affect the centre of mass/centre of gravity
- What were your control variables? - environmental stuff, disturbances, human error
- How did you calculate your error bars?
- Were all participants given that same instructions?

Opponent

-