



Topic 6: Piezo Ignition

Opponent: Christos
Kalemkeris



International Young Naturalists' Tournament



Task



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A common lighter uses **piezoelectric crystals**. Investigate the **quantitative parameters** describing the **response of such crystals to pressure**.



Theory



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Strengths

Detailed explanation of theory linked to their experiment

Formulas for given and explained

Weaknesses

Although explained, could focus more time on the experiment itself

Experiment



Strengths

Weaknesses

Every equipment used showed

No method

Visual Aids

No uncertainties mentioned in the height the hammer drops from (cm not mm)

The setup looks unstable which may affect the results

No controlled variables mentioned

Should spend more time on results

Results



Strengths

Had graphs/labelled with error bars

Weaknesses

No raw data

Gathered results from photos which makes them in

Only one graph to represent the data

Conclusion



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Strengths

Connected the conclusion to the formula

Weaknesses

Didn't refer to hypothesis nor research question



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