

Ascension of  
Our Lord school

2025-2026

Science fair

Log Book

by Maksym O.

Total time spent ~45h

# November

- Found idea for project: something with energy
- Nuclear energy- how does it work?
- Did research on the topic
- Brainstormed and discussed ideas how to make an experiment about nuclear energy

# December

- Did more research to understand nuclear energy and how does it work
- Did not come up with an experiment idea

# January

- Partner quit the science fair, but I didn't.
- Found new topic: electric vs kinetic energy systems
- Wrote testable question: How does stored energy affect the amount of work done in electrical and kinetic energy systems?
- Wrote hypothesis: the bigger the source of energy, the more impact it will have.
- Did research on the topic

# February

- Wrote procedure: drop 2 balls into tubes that are different sizes so the ball falls straight down and are dropped from different heights. Observe how deep one goes compared to the other one. Connect and measure how long a light source will shine while connected to an AA battery, repeat but with a C battery. Then repeat but with a tooth brush motor.
- Completed research
- Collected materials
- Started experiment: measuring battery times.
- Calculated using the formula:  $Wh = W \times H$
- Did the marble drop experiment.
- Wrote observations about both the experiments

# March

- Wrote conclusion: The larger the battery the more work it will have on whatever it's used for. The C battery produced more watt-hours than the AA battery while connected to the light source. The ball that was dropped from higher went deeper in the powder. In both of these experiments it is seen that the bigger the source of energy, the larger the result. The completely different processes show these similarities.
- Wrote manipulated variables, responding variables, and controlled variables.

- Wrote analysis
- Took pictures of the project
- Rewrote logbook onto pdf file
- Finished uploading information onto cysf platform