**Help with cutting words plsss**

**Think about an academic subject that inspires you. Describe how you have furthered this interest inside and/or outside of the classroom.**

My car was strapped onto a carriage as it entered the tunnel. It was pitched black and all my 12-year old eyes could see was small signs attached on the side of the tunnel walls.*100 meters, 200 meters, 300 meters...*

My dad rolled down his window and stuck his hand out to predict the wind speed. “It’s around 60 km/h”, he stated. “No, I think it’s around 90 km/h”, my brother argued.

Suddenly, I felt the urge to open the stopwatch app on my phone. I clicked “start” right at the 800-meter mark and “stop” at the 900-meter mark. “So, it took 5.1 seconds to travel 100 meters. 0.1 kilometers divided by 5.1 seconds is approximately 70.6 km/h,” I inferred.

Astonished, my dad encouraged me to try physics in middle school. And I fell in love ever since. I found that “physics” has always been a part of me, even before the word existed in my dictionary.

My passion for physics guided me throughout the 6-year IB MYP and DP Physics Program, and beyond. During junior year, I proposed a research project on renewable energy as part of my participation in Science Academy. Under the mentorship of Professor Henri Uranus, the head of the electrical department, I designed a hybrid solar and wind system with improved efficiency compared to conventional solar panels. Instead of harnessing electricity from a single source, I connected both circuits and installed diodes to ensure that the current does not flow backwards. With two sources instead of one, the battery charged at a faster rate and powered light longer.

Every week, I dedicated 5 hours for my experiment. Over 6 months, I observed Professor Uranus’ research and participated in his lectures to gain the necessary knowledge to complete my experiment.

At the end of the year, I managed to present my contraption to Indonesia’s Minister of Research and Technology at the Science Academy exhibition.

This experience gave me an opportunity to apply my physics knowledge outside of the classroom. Despite the strenuous hours of work, it continued to fuel my passion for this subject.