**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 through the tunnel. It was pitched black and all my 12-year old eyes could see was small signs attached on the right side of the tunnel walls.*100 meters, 200 meters, 300 meters...*

My dad cracked open a window and stuck his hand out, trying 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 was enlightened to open the stopwatch app on my phone. I clicked “start” right after we passed the 800-meter mark and “stop” at the 900-meter mark. “So, it took 5.1 seconds to travel 100 meters. That means 0.1 kilometers divided by 5.1 seconds is approximately 70.6 km/h,” I inferred.

Astonished, my dad encouraged me to try out this subject called “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 itself 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 either solar or wind, I connected both circuits and installed diodes to ensure that the current doesn’t flow backwards. With two sources instead of one, the battery can be charged at a faster rate and in turn can power light longer.

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

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

I’ve only ever studied the theory of physics within the classroom, but this experience gave me an opportunity to apply my knowledge into practical fields. Despite the strenuous hours of work, it has only continued to fuel my passion for this subject.