***Think about an academic subject that inspires you. Describe how you have furthered this interest inside and/or outside of the classroom.* (350 words)**

Physics has been my favorite subject for a long time. The concepts discussed often don't need extensive memorization. Instead, it requires logical thinking, which I prefer compared to imaginative thinking. One topic that I’m intrigued by in physics is aerodynamics and the simplicity of its laws, which are applicable in the fields I love the most: motorsport and aerospace.

In class, I glued my eyes to the whiteboard as my teacher explained how airplanes require thrust to generate lift, and how race cars need drag to handle the corners. I was so fascinated by this topic that I decided to do my Physics Internal Assessment on it. I dove into research journals to find out how a car's wing can affect the downforce generated. This inspired me to create a small-scale version of a wind-tunnel using my miniature car, where I measured how a certain spoiler size pushes the car downwards.

Physics also helps me better understand my passion: automobiles and motorcycles. I watched YouTube videos from Driver61 and Donut Media, which expanded my knowledge on how aerodynamics play a role in race cars. I also apply some of the things I learned from class and outside in my daily life. When riding my motorcycle, I like to lower my back and head to lower the drag of the motorcycle so I can go faster. Though it may sound ridiculous, I am fascinated to see how physics plays a role in our daily lives, whether directly or indirectly.

In the future, I want to expand my knowledge of aerodynamics and further develop my interest in physics by participating in research projects related to motorsport and building my own race car. My ambitions to (fill in here) are fueled by physics, and I cannot wait to explore this subject further.

Hi Indra:

I think this is almost good to go! Love seeing your passion for physics.

All the best!