NAME: LISA OWOKERE

SCHOOL: PEGASUS HIGH SCHOOL

CLASS: EIGHT (8)

IF I COULD INVENT SOMETHING NEW

Imagine a society where air and noise pollution in cities and urban areas is no more, a society where cities and environments are healthy and safe, a society where the services of a mechanic would be to only check vehicle filter and refill vehicle water tank. Imagine a world where hydro vehicles exist in abundance! Never is there a time hydro vehicles would be needed in our society other than now, especially in the stern face of the looming price spike of fossil fuel globally. Hence, my dream therefore is to invent a hydro vehicle, a vehicle as clean as a surgeon’s scalpel, powered by the earth’s most abundant resource—water.

Unlike vehicles that require the use of oil, costly to maintain and often become inefficient, a hydro vehicle is a vehicle that uses hydrogen propelled electric motor. Here, through electrolysis, hydrogen is extracted from water in the vehicle to generate electricity which in turn is used to power the vehicle. As lucrative my invention could be, it involves some surmountable challenges.

Considering the challenge of low energy density of water, my invention will tackle this through a two-step solar-powered process. First, the sun will be used to power a system that could split water into two parts: hydrogen and oxygen, and the hydrogen will be stored safely in a special tank in the vehicle. Secondly, to convert the stored hydrogen into usable power, a special machine that can combine the hydrogen with air would be used. This would create clean electricity to run the engine in a super quiet, emission-free powerhouse.

Another challenge would be a slightly shorter driving range of hydro vehicles compared to gasoline powered vehicles. To address this, the need a network of strategically situated hydrogen stations can come in handy to enable easy refuelling of hydro vehicles during longer trips. However, building a network of hydrogen filling stations would require a significant investment but would be a one-time investment.

There is no doubt that my invention would be a huge game-changer, and its impact would be revolutionary. With my invention, gas stations would be called water stations. They would be transformed into clean energy hubs, generating hydrogen from renewable sources like the sun and the wind. Then humans would finally say goodbye to the continuous fluctuations in fuel prices. Although there other challenges ahead of my invention such as job loss for millions of people working in the oil and gas industry, the benefits of my invention undeniably outweigh them.

Just imagine that worldwide, clean air is everywhere, and the noise and sounds of vehicle engines are replaced by a silent hum. My hydro vehicle is not just a machine that people would marvel at; it is a vision of a cleaner, more sustainable future. The challenges are significant, but the rewards are worth it. I believe that with enough research and development, my idea of a hydro vehicle could become a reality.