**Name: Mac-Erasmus Alaneme**

**Class: Junior high 3 Outstanding**

**School: Royal Family Academy, Wuye Abuja.**

**Topic: Electro-Magnetic Vehicles to Reduce Accident and Depletion of Ozone Layer**

Asides Sickness and old age, road accidents are one of the biggest incidents that take away human lives. It is obvious that with the impromptu and periodical races that drivers constantly engage in, over speeding, is one major factors of deaths ending the lives of fellow drivers and unaware pedestrians. Road transportation is the cheapest and most accessible means of transportation, but it can break the bank with Continuous fuelling and repairs. It is easy for kidnappers and bandits to easily get away got the police.

Road transportation has its advantages and disadvantages, how then can one increase number of advantages? One way is the simple introduction of electromagnetic cars. We have heard of electric cars and magnetic trains but where do electromagnetic cars fit in? An electromagnet is created with the show of a current of electricity through a metallic wire, it is a temporary phenomenon.

Simply put, an electromagnetic car is a car driven with electromagnets instead of tyres. It uses this science to hover above the ground with repelling electromagnets that are equated with attracting electromagnets to pull it to the ground. The current can be controlled with the acceleration pedal and slowed down with the break pedal. One may wonder how this would solve any problem but tyre usage exclusion.

Firstly, accident reduction with controlled speed and almost instant brake mechanism will be introduced, it would be easier and faster to stop the car almost completely within about 5 seconds. The magnets can also repel other cars therefore reducing collision damage. How do the emergency brakes work? The repelling magnet would be a little stronger than the attracting magnet in order to initiate the hovering reaction. The emergency brake would immediately turn off the repelling magnets and the magnetic attraction to the road; as well, the gravitational force due to the weight of the car would almost instantly stop the car saving lives.

Secondly, reduction of carbon emission. This product may be void of any consumption of fuels which would leave the air free of ozone gases.

Thirdly, the cars would ultimately become cheaper and easier to maintain, fires would not be so frequent anymore and traffic can easily be controlled by turning the roads on and off.

Now, why would one want this vehicle on the roads? When losing a loved one, family member or even a breadwinner, its effect can be fatal, emotionally, and financially. Such cars, being the most accessible mean of transport, will be vital in transportation across town to rush maybe a child to the hospital without the worry of a terrible life taking accident. Many people also need to buy affordable cars. Fuel can be extremely expensive; this type of car will need little or no fuel at all, saving lots of money.

In Conclusion, electromagnetic cars will be cheaper to maintain, reduce risks of accidents, reduction of ozone depletion, reduce fuel consumption, easier traffic control and saving of many lives.