**SCHOOL NAME: UNIQUE FRIENDS SCHOOL**

**NAME BENARD VICTORY**

**CLASS JSS 3 IVY**

**TOPIC:- EASSY**

**IF I COULD INVENT SOMETHING NEW**

If I were to invent something new it would have to be a smart watch that could detect diseases.

The use of the smart watch will be very effective in diagnosing the symptoms of various diseases in particular the smart watch will show promise in detecting heart failure , movement disorders and maybe even early signs of COVID 19 etc. The smart watch can also help in curing the disease that is spreading widely and currently taking peoples lives in NIGERIA such as cholera etc. Which can be stopped by these particular invention.

The smart watch detect diseases in a way that it uses a symphony of sensors. The smart watch will be able to detect diseases through the optical heart rate sensor which lights the skin to detect blood volume variations and infers the palatial beat of the users heart.

These smart watch in particular cannot only detect diseases, but helps in checking blood pressure, predicting heart attack, also uses the blood cells to detect immune system damages, they track calories burned, heart rate and keeps track of your sleep but here is the kicker they can also help manage chronic diseases like hyper tension or diabetes by monitoring circular health parameters.

These smart watch is able to help in research of the brain, heart, respiratory, neurological and liver diseases, as well as gynecological conditions, mental illness and diabetes etc. Literally the future of public health could be in your hand or on your wrist to be precise. Someday soon my smart watch will be able to detect diseases before you know about it.

The smart watch use a flashing green light to measure your heart rate from your wrist just like searching for pulse.

The spectroscopy of the smart watch tells us that blood absorbs green light because red and green are opposite each other on the colour wheel. The rear of the smart watch contains an ophcal sensor to detect the reflected light.

The main difference from spectrometers the smart watch is that the light source and detector are posihoned on the same side in the smart watch, while they are opposite each other in spectrometers they layout used in other smart watches can result in lower accuracy compared to spectrometers because the detector is enhrely dependent on the amount of light reflected on the sample i.e blood.

In order for the smart watch to detect blood pressure it uses sensors and algorithms to measure blood pressure. The sensor detect the changes in blood volume in the arterles of the wrist and convert it into an electrical signal. The signal is then processed by the algorithm to calculate blood pressure. In the which the measurement are then displayed on the smart watch screen. The smart watch doesn’t just detect disease it as other features like AIKARHLCIAL intelligence, location sharing, and it helps to guide your physical health etc.

In conclusion “there is really no disease that won’t be touched by this smart watch”. It could create a glimpse into the future of no diseases thanks to technology and though the smart watch.