MAKUENI BOYS HIGH SCHOOL

PHYSICS FORM THREE
APRIL HOLIDAY ASSIGNMENT 2020

1. Differentiate between potential difference and electromotive force of a cell

2. What do you understand by the term " lost volts" in an electronic circuit

3. State the Ohm's law

4. A battery of voltage 10V supplies a steady current of 24 amperes. Calculate the resistance of the circuit.

5. A loader raises 10 bags to a height of 20 m in 2 minutes.

Calculate :

i) The potential energy gained by the bags if each bag has a mass 50 kg.

ii) The power of the loader

6. A bullet of mass 20g moving at a velocity of 200 ms^{-1} hits a block of wood of mass 500g the two get fused and move in a common direction with a common velocity.

i) What type of collision is this?

ii) Calculate the combined velocity after the collision

iii) If the impact takes 0.01 seconds calculate the impulsive false

7. An electric cattle is rates 1100W how many joules of energy does it use in a week if it is use for 30 minutes daily.