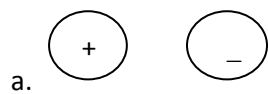


# BASIC TECHNOLOGY JS3

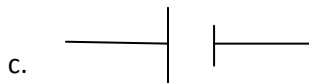
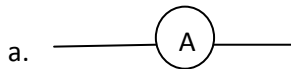
## HOLIDAY HOME WORK

**Instructions: Answer all questions and send back through the school's Email address.**

1. Define the following terms:-  
a. Current      b. Electricity      c. Circuit      d. Resistance
2. Make a simple sketch of an electric circuit.
3. Complete the electric and magnetic lines of flux on the diagrams below.



4. a. What is Quantity of Electricity?  
b. If a current through a flashlight bulb is 0.05A, what quantity of electricity passes in 3mins?
5. Name the following electrical symbols.



6. Three resistors of  $8\Omega$ ,  $12\Omega$  and  $6\Omega$  are connected in series to a 20V supply. Draw the schematic diagram and calculate:-  
a. The total resistance in the circuit.  
b. The circuit current.
7. State the Law of Conservation of Energy.
8. Name 5 electrical devices which can convert energy from one form to another and state the process of conversion.
9. Name and briefly describe 5 sources of energy.
10. a. Give any 2 functions of the following structures:-  
i. Door      ii. Window      iii. Roof  
b. Show by sketches 2 of each of the following:-  
i. Doors      ii. Windows      iii. Roofs