



Name: ... **Key**.....

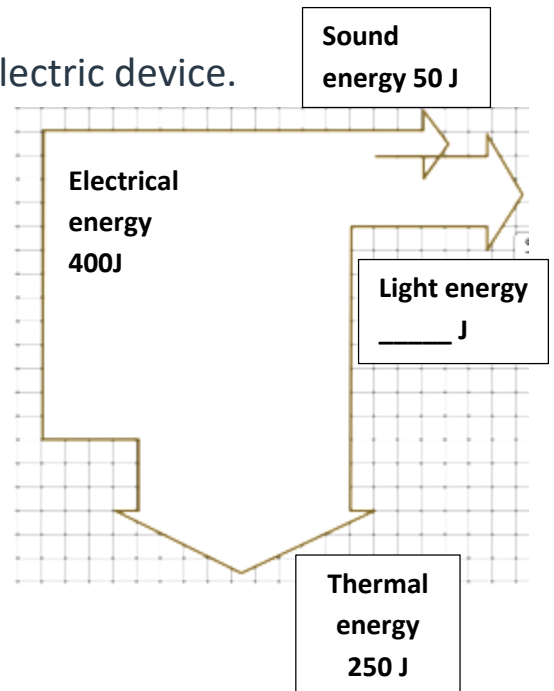
Subject: Science/ Physics

Worksheet 3 : Sankey diagram

Date.....

Grade 6 CS (B C D E F)

The picture shows a Sankey diagram for an electric device.



Answer the following questions according to this picture.

Question 1 :

a) What is/are the useful and the wasted energy?

Useful: Sound and light energy.

Wasted: Thermal energy.

b) The type of input energy for this device is: Electrical energy.

c) Calculate the amount of light energy in this device: 100 J.

d) The total amount of output energy in this device is 400 J.

c) The amount of input energy in this device is: 400 J.

Question 2:

Is the device represented by the Sankey diagram shown in the picture efficient or inefficient?

.....**This device is considered inefficient.**

Why?

...**The wasted energy is much more than the useful energy produced by this device.**

Question 3:

This Sankey diagram represents the energy transfer taking place in an electrical device. Which electrical device can it be?

.....**A television / A laptop**.....