

Name: _____

Grade and Section: _____ Date: _____

Week 4 Opening Activity. How Much Do I Pay?

Objective: In this activity, you will determine the electrical energy consumption consumed by your household for the whole month.

Procedure:

1. Identify the appliances in your home and list them on the table.
2. Determine the power rating for each appliance. This is usually indicated in the seal at the back of the appliances.
3. Estimate the number of hours you are using this appliance in a month.
4. Calculate the energy consumed in each appliance and write the values in the table.
5. Calculate the energy cost per appliance using the cost of 1 kWh in your locality. You may ask your parent/guardian or check your electric bill.

Appliances	Power Rating (W)	Number of hours used for the whole month (h)	Electrical energy consumed (P x h)	Energy Cost (pesos) (Electrical Energy consumed x cost per kWh)

(1) How much energy did you consume in a month? Is this consistent with the energy reflected in your electric bill for the month? If not, what do you think is the reason/s for the observed inconsistencies?

(2) What is the estimated cost of the use of this energy? Is this consistent with your electric bill for the month? If not, what do you think is the reason/s for inconsistencies?

(3) What would be your plans to reduce the energy consumption for the whole month? Complete the table below.

Current Situation	Action Plan to Reduce the Electrical Energy Consumption	Expected Outcome (expected energy consumption and cost reduction)