**Science 9 energy audit**

**Part 1 – Energy use in your house**

* Calculate the amount of energy used by several electrical appliances/gadgets in your house in a typical day. You do not need to include every appliance in your house. I would suggest choosing 6-10. No less than five
* For each appliance/gadget/bulb find the power (in Watts) and multiply by the hours that thing is used in a day to find energy used in Wh. Convert minutes to hours if necessary.
* Convert watt-hours to kilowatt-hours by dividing by 1000.
* Using the rate on the hydro bill (first step), calculate the total cost of operating the items you have chosen for one day.
* You may use a spreadsheet for the calculations if you wish, but show a sample calculation (for one item) to show that you know how to do the calculations.

**Part 2 – Electricity use in BC**

* Looking at the printout of the sample bill, determine:
	+ How frequently (on average) the customer receives a hydro bill
	+ How much the customer pays per kWh for each of the two stages/steps - Why are there two different prices?
	+ How much electrical energy the customer used each day vs. the same period last year
* Answer **one** of the following questions in a short paragraph (in your own words, no cutting and pasting – I am not looking for perfect spelling and grammar)
	+ What is the so called “site C dam”? What are some arguments for and against its construction?
	+ What are smart meters? What are some arguments for and against their installation?
	+ Besides hydroelectricity, what is another “green” way of generating electricity? Describe how this option works and where it is currently used.