



CONDUCT A LIGHT BULB INVENTORY AND AUDIT OF YOUR CLASSROOM

Materials:

- Map of school
- Calculator
- Light meter (optional) available at Lowes

Step	Calculation	Total
Step 1: Count the number of classroom lights.		
Step 2: Determine number of fluorescent bulbs in classroom	(# of bulbs per fixture) x (number of fixtures) = (number of bulbs)	_____ bulbs
Step 3: Determine the number of incandescent bulbs in the classroom	(# of bulbs per fixture) x (number of fixtures) = (number of bulbs)	_____ bulbs
Step 4: Calculate watts per classroom	(# of bulbs per classroom) x (watts per bulb) = (total watts per classroom) *You may have more than one line here. It depends on the types of light bulbs in your classroom. Be sure to list each of the different watts on separate lines.	_____ watts per classroom
Step 5: Calculate total watts per day per classroom	(total watts per classroom) x (hours per day used) = (total watts-hours per day per classroom)	_____ watts-hours per day per classroom
Step 6: Convert watts to kilowatts	(total watts-hours) ÷ 1000 = (total kilowatts-hours)	_____ kilowatts-hours
Step 7: Calculate cost of lighting classroom per day	(total kilowatts-hours) x \$.07 = (total cost of lighting classroom per day)	\$ _____
Step 8: Calculate cost of lighting all school classrooms per day	(total cost of one classroom) x (number of classrooms) = (total cost for lighting the school)	\$ _____