NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DATE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

CALCULATING THE COAST OF LIGHTING IN SCHOOL

Procedure:

1. Calculate the number of florescent light bulbs in the classroom
2. Multiply that number by 0.003 to find the total cost of lighting classroom for one hour
3. Find out how much does it cost to light the classroom for a day by multiplying the number in step 2 by H (hours per day classroom lit)
4. Calculate the cost for a week, month and year.
5. Calculate how much coal is needed to light the classroom for a.) An hour; b.) A day; c.) A month; d.) year. (Burning 1 ton of coal produces 2,500 kWh of electricity).

Next calculate the cost for The Center School for a week, month, and year. (For this activity we need to calculate all the fluorescent light in school by calculating how many classrooms we have and multiplying that number by 10 to account for extra bulbs in hallways, commons, theater, gym, and etc.)

Now calculate coal it takes to light the school annually.

Compare the coast of coal to the cost of other fuels or alternative energy sources (solar, wind) if applicable and find cost effective way to light a school.