

# ENERGY IN YOUR HOME - (MAKE A COPY 1st)

## **LIGHTS** How many people does it take to turn on a light bulb? -----

If you said 1, you need to [watch this video](#). Lights use up some of the electricity use in your house. This electricity is probably produced from fossil fuels and thus the more you use the more you are adding CO<sub>2</sub> to the atmosphere and contributing to climate change. Of course, we need to have light, but often we use much more on than we need and some people still use old energy-inefficient bulbs. Let's see if your house is wasteful and then we can improve it. Don't feel bad, most houses will be wasteful, but that just means there is room for improvement. Go around each room in your house and record what you have. [Learn the types of lights](#).

| Items                                  | How many do you have? | How many were on when you checked? | How many are you willing to turn off now? |
|--|-----------------------|------------------------------------|---|
| Incandescent lights<br>(worse)         |                       |                                    |   |
| Compact fluorescent lights<br>(better) |                       |                                    |   |
| LED lights<br>(Best)                   |                       |                                    |   |



## **WHY YOU SHOULD UNPLUG!**

Standby mode can use 23% of the electricity use in a house. These are the lights that are on when you are not using something for example on the microwave. How many standby lights do you have on? watch [this video](#) to know why you should unplug.

| Items                    | How many things are plugged in? | Did it need to be on?<br>(yes or no) | Could it be unplugged or put into a powerbar? |
|--------------------------|---------------------------------|--------------------------------------|---|
| TV                       |                                 |                                      |   |
| Cable TV box             |                                 |                                      |   |
| Apple TV (or similar)    |                                 |                                      |   |
| Internet                 |                                 |                                      |   |
| Computer / Laptop        |                                 |                                      |   |
| iPad / tablet            |                                 |                                      |   |
| Phone(s) w/ charger      |                                 |                                      |   |
| Phone charger (no phone) |                                 |                                      |   |
| Lamp                     |                                 |                                      |   |
| Stereo                   |                                 |                                      |   |
| Video game player        |                                 |                                      |   |
| Refrigerator             |                                 |                                      |   |
| Oven                     |                                 |                                      |   |
| Microwave                |                                 |                                      |   |
| Blender                  |                                 |                                      |   |
| Fan(s)                   |                                 |                                      |   |
| Coffee machine           |                                 |                                      |   |
| Kettle                   |                                 |                                      |   |
| Clock                    |                                 |                                      |   |
| others?                  |                                 |                                      |   |

## POWER BARS

Power bars save a lot of electricity and thus use fewer resources and put less Co2 into the atmosphere. Of course, this will only work if the Power bar is switched off when you are not using the item. Go around your house and see how many Power bars you are using.



|  |  |
|--|--|
| Total # of power bars                          |  |
| List items that were plugged into a power bar: |  |

## AIR CONDITIONERS

Air conditioners (AC) take up the most electricity in a home and can also cause other problems by breaking down the ozone layer. We do live in Thailand and it would be unfair to ask people to never use the AC in this hot temperature. However, often we are using the AC when it is not needed or when we are not even in the room. Please go to each room and check your AC.

| Total # of AC's | How many were on? | How many didn't need to be on? | Does the AC have a sleep timer? |
|-----------------|-------------------|--------------------------------|---------------------------------|
|                 |                   |                                |                                 |



## Energy Star

Energy star is a symbol that means this item has been built with energy savings in mind. How many appliances in your house have this symbol?



## IMPROVEMENTS

Based on what you learned in this assignment, write 5-10 improvements you will make to reduce energy.

1. -
2. -
3. -
4. -
5. -
6. -
7. -
8. -
9. -
10. -