



# The Phantom of the Classroom (and of our Homes)

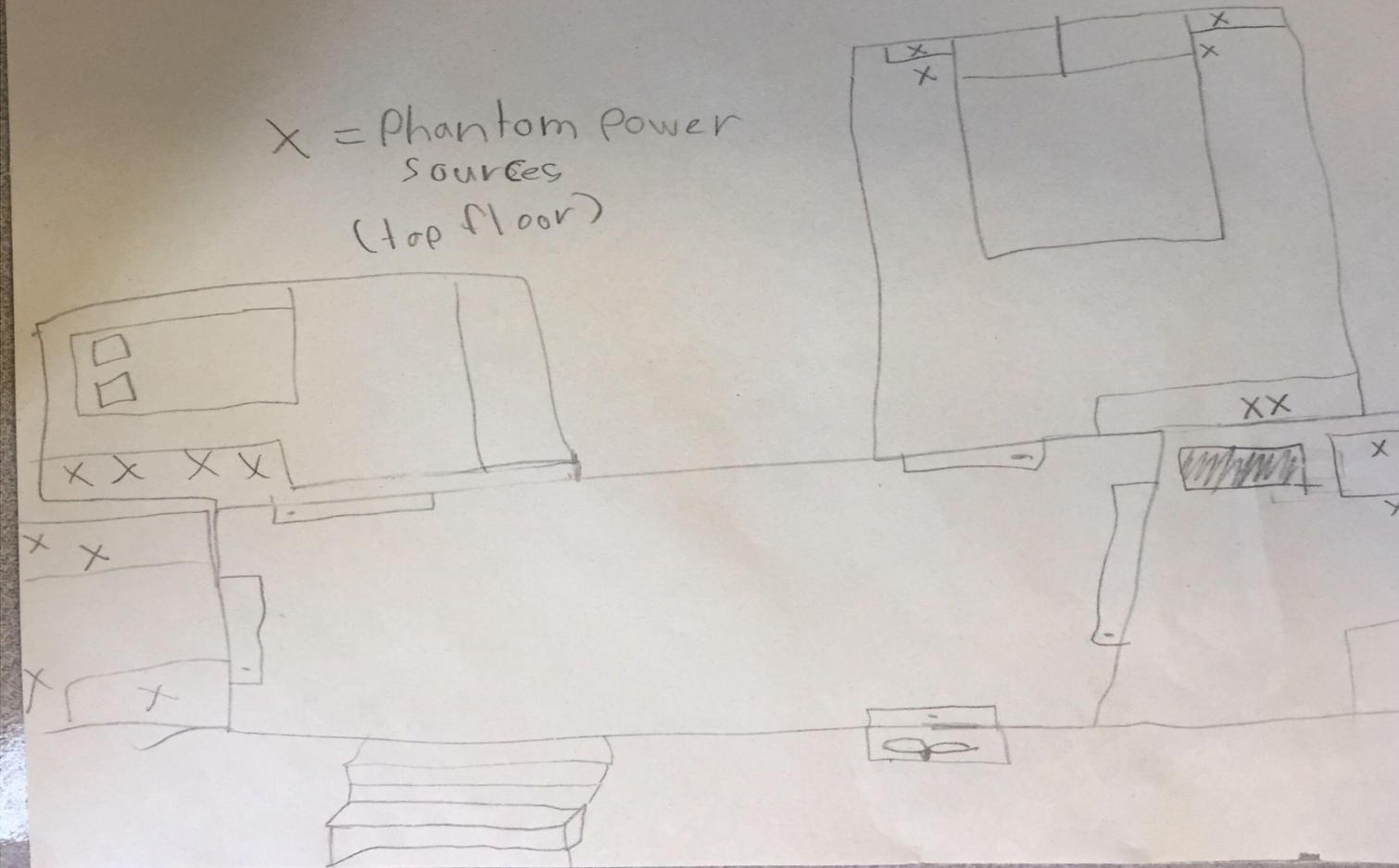
CEDC 2022  
Ms Varden's Grade 4 Garden

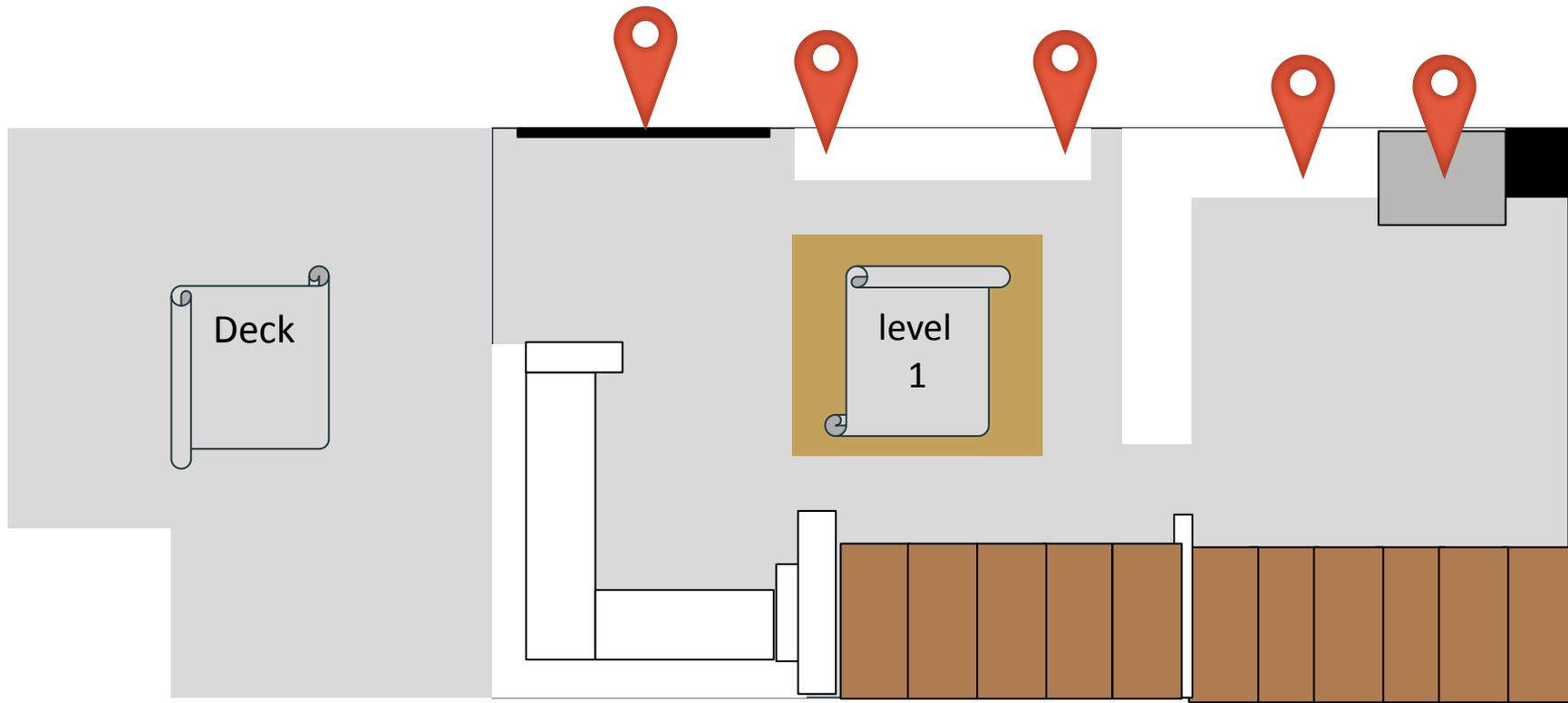


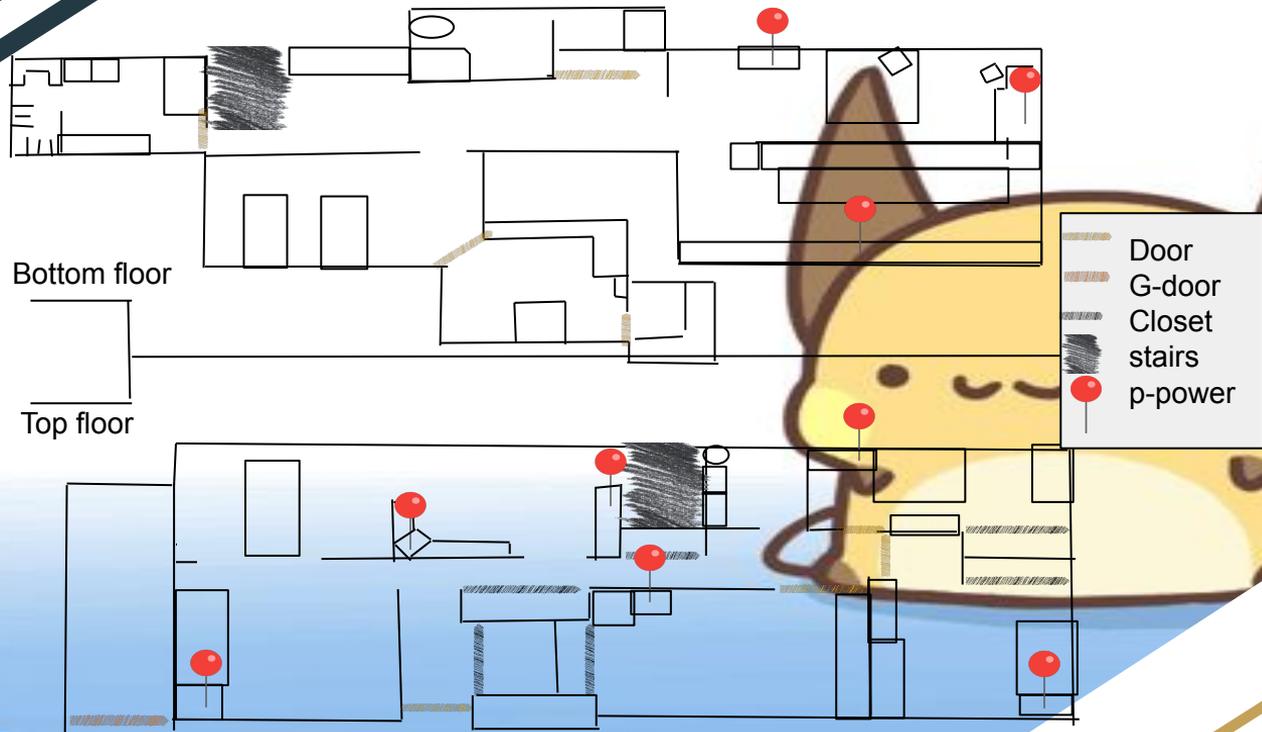


# Part 1: Our Hunt for Phantom Power in Our Homes

X = Phantom Power  
Sources  
(top floor)



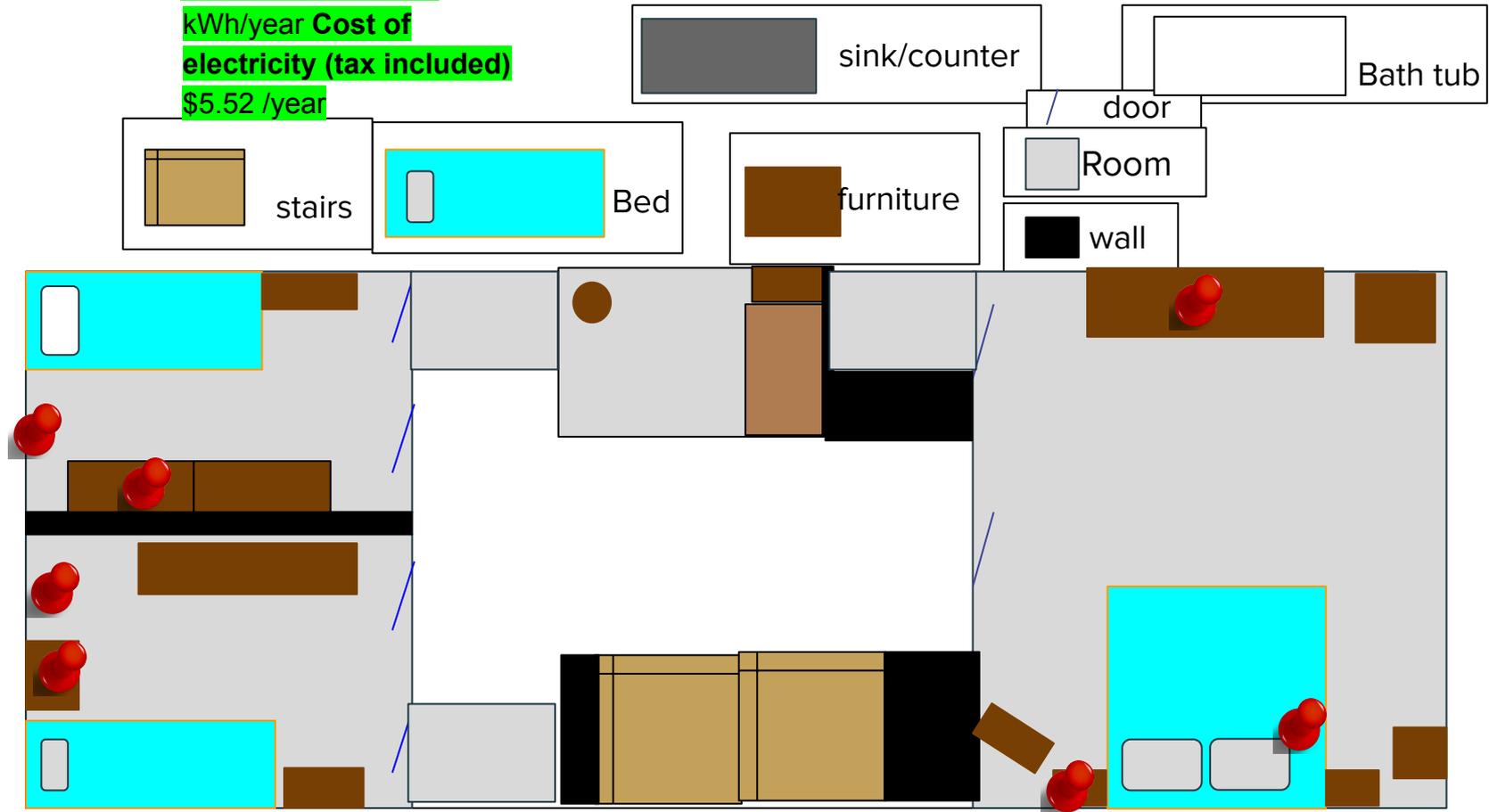




Electricity use 61.3

kWh/year Cost of  
electricity (tax included)

\$5.52 /year



non electronic  
="never" used  
sometimes used  
frequently used  
="always" used

pc  
(where im doing this from)

xbox/tv

wiiu

other pc

playroom/gaming room

oogle  
9rPY

washing machine & dryer

Machine overlords washing clothes ritual place

TV

living room

tangled mess o wires

AEROGarden™

coffee machine 1

microwave & oven

coffee machine 2

counter  
dishwasher

kitchen

fridge

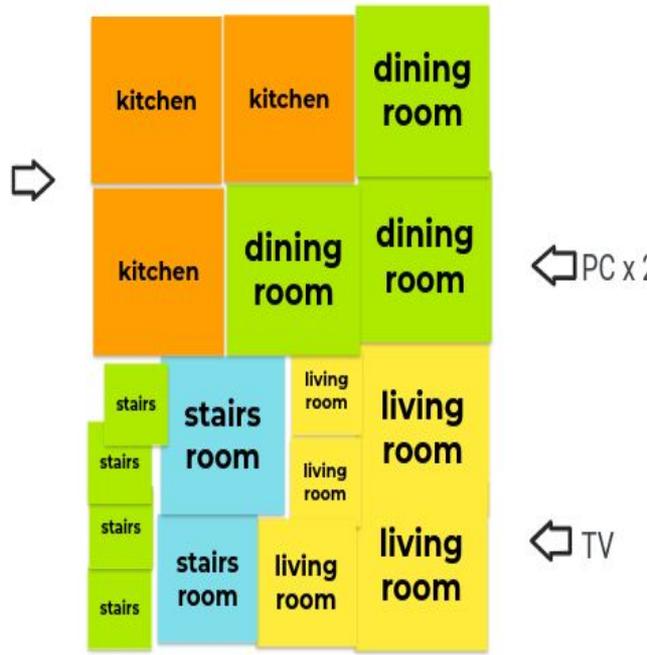
I couldn't find any phantom power sources.

up stairs



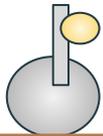
floor 1

kitchen stuff. Oven, microwave, and our google mini



If you add up three oranges, one red, and a yellow, that's a LOT of phantom power. And that's only one HALF of my BASEMENT! There's my whole house! And street! And city! And everyone! Be aware of phantom power.

Purple Text= Sometimes using power  
Green Text = Not using any power  
Yellow Text = Using little power  
Orange Text = Using Moderate Power  
Red Text = Using a lot of power



Piano -Always plugged in  
= bad

Lamp - Always  
plugged in = bad

Couch - Why would a couch need to be plugged in?

Nintendo charger -  
Always plugged in

TV - Always plugged in

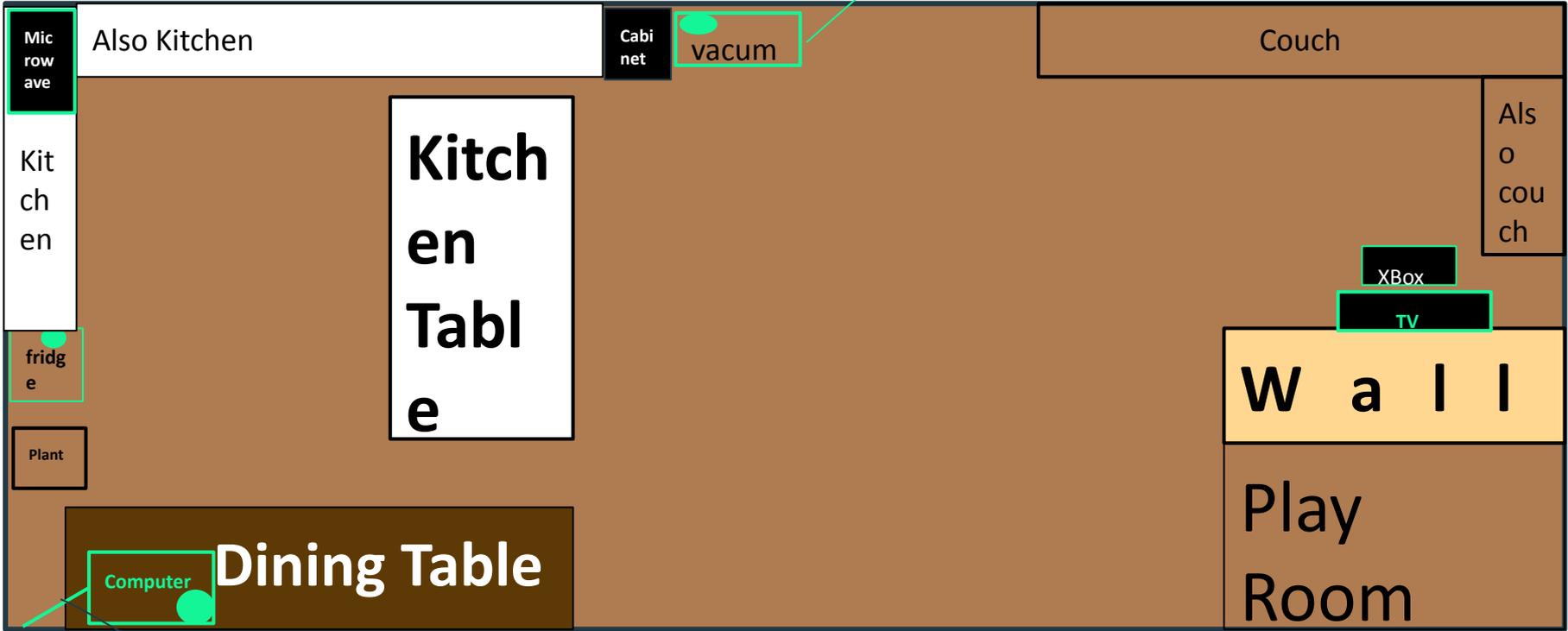
Nintendo Switch -  
Using less when in  
sleep mode



Legend:  
Sources of Phantom Power=● (and/or ↘)

# Main Floor

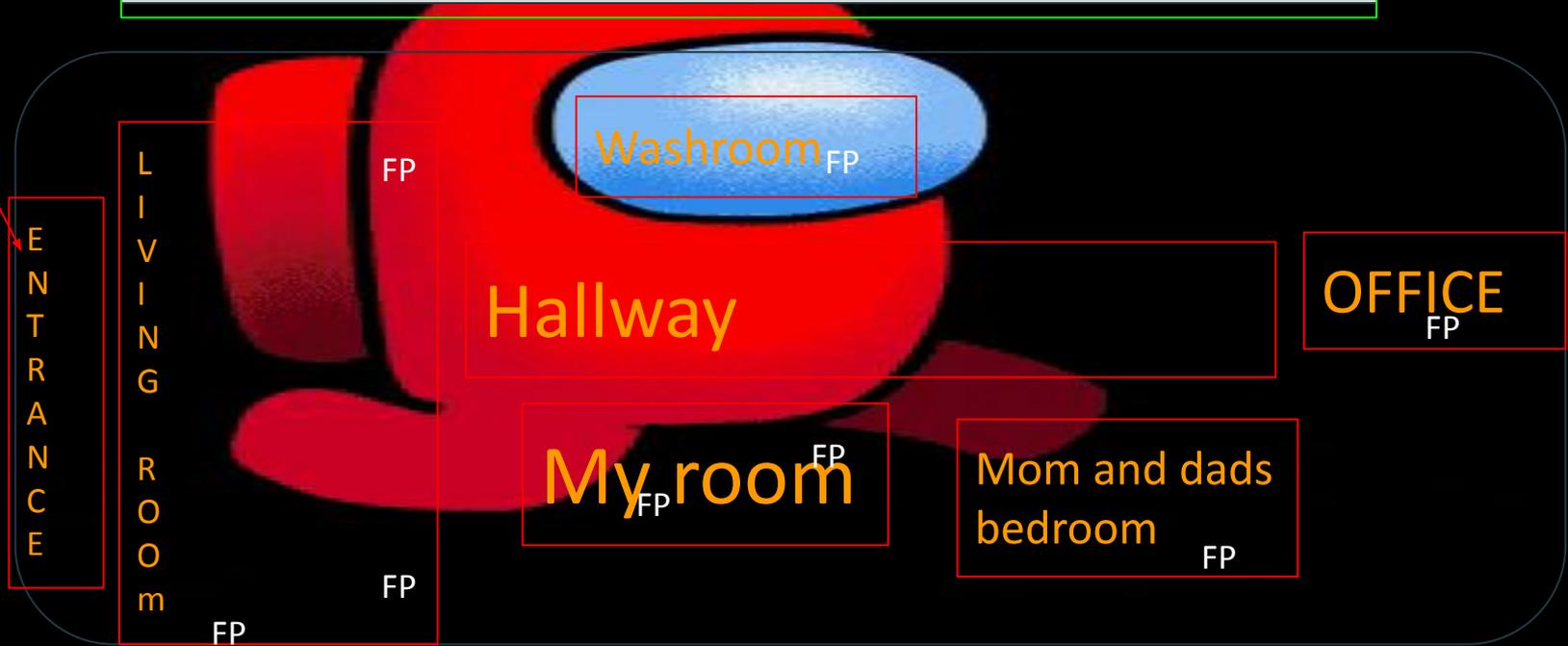
It is always charged into the Cabinet



Charger (which is always charged into the power outlet that's in the wall)

Legend: FP = phantom power

(Shade Face)



**Internet responder**

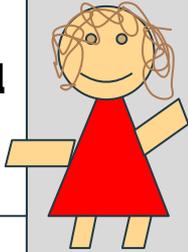
**Internet control box thing**

**House power source**

**My big table**

**My shelf with stuff inside**

**My small table**

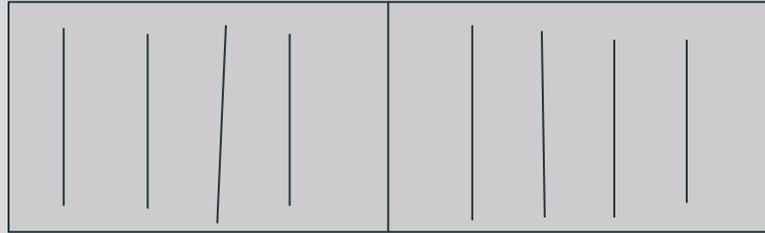


*Rainbows!*

**Shelf full of toys**

**Closet full of clothes**

**Reading Nook**



My

Main

Floor

Microwave &  
toaster(my moms  
coffee maker and  
kettle) Oven

Keyboard

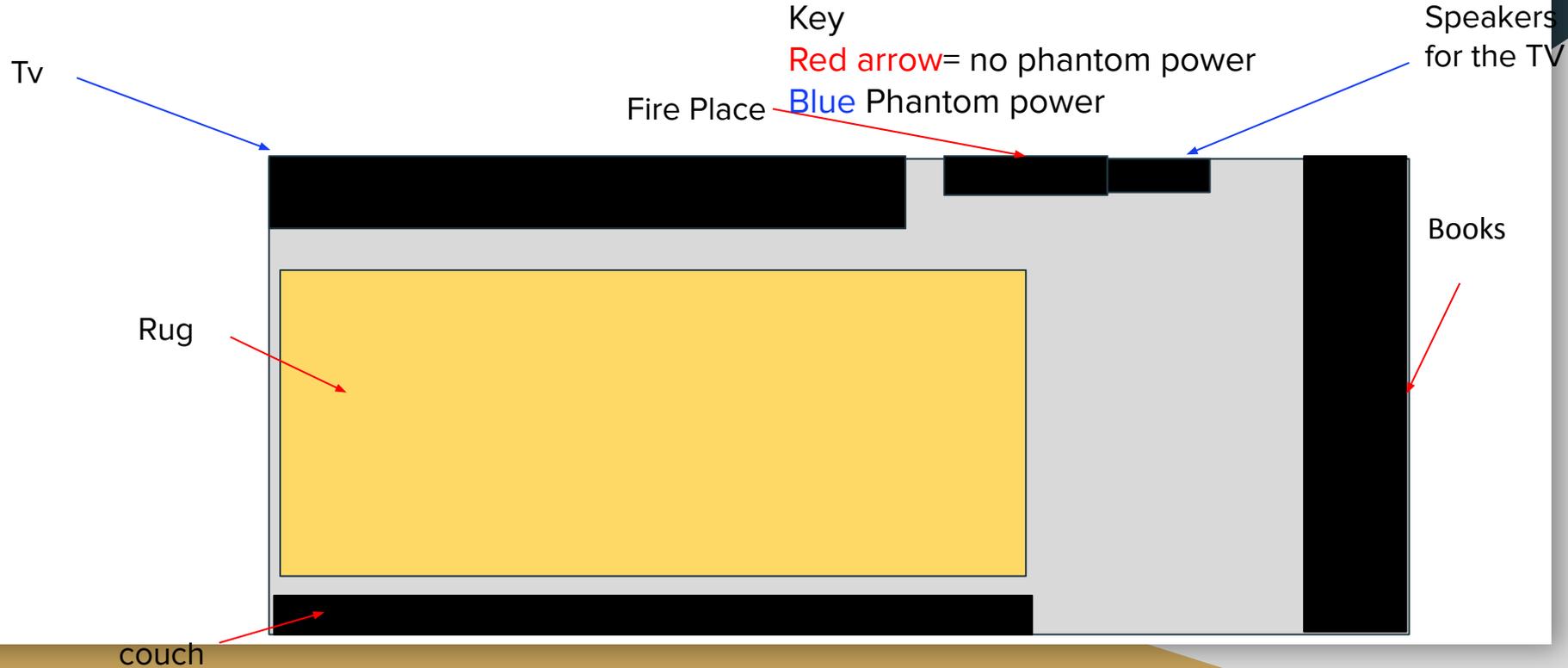
TV & electric  
fireplace

dishwasher

Wifi?

Lamp

# My Main Floor Family Room



Front hallway

kitchen

stairs

bathr  
oom

My room

!

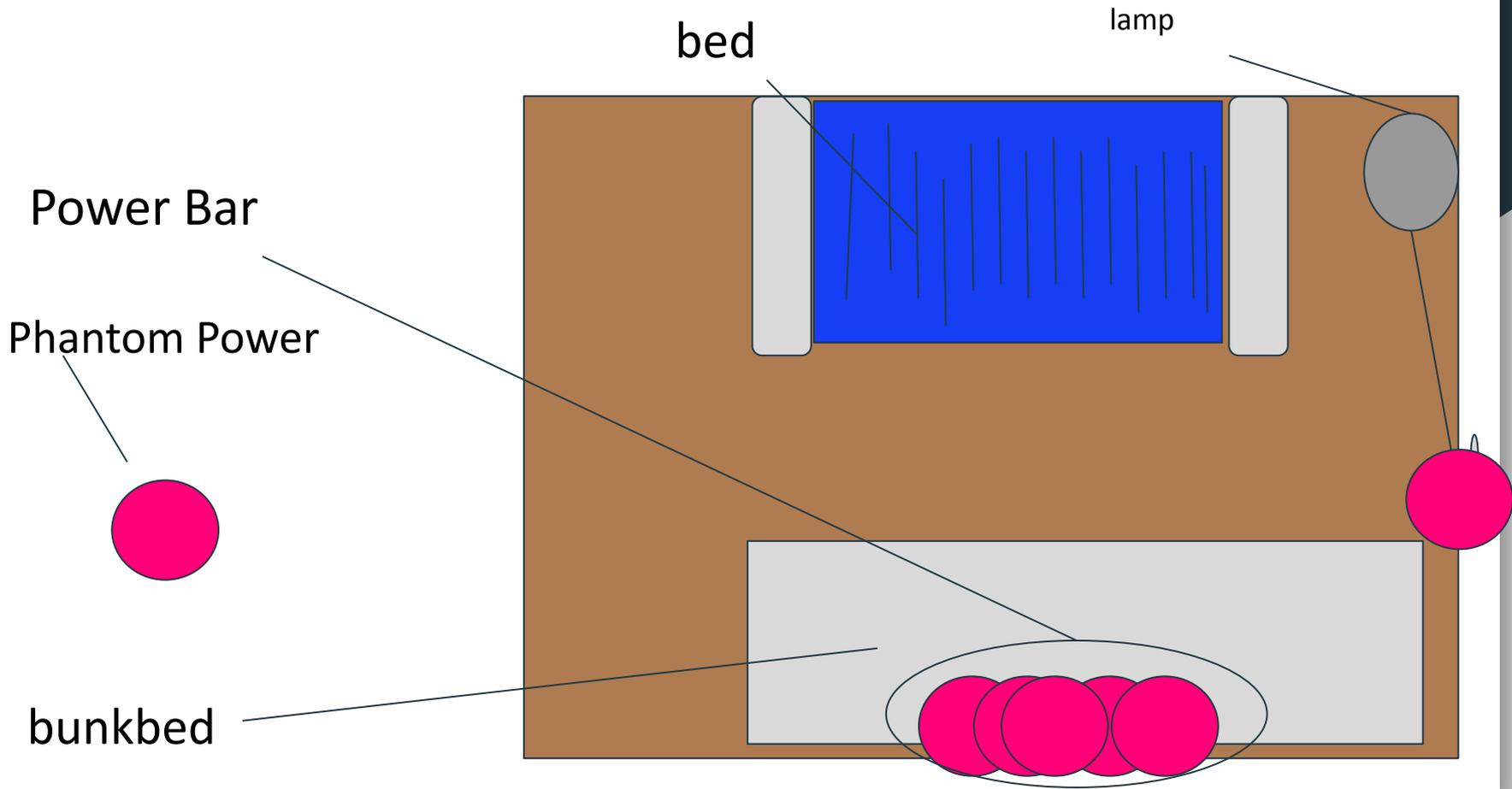
!  
!

hallway

Living room and dining room

!

My sister's room (who  
knows what is going on in  
there?)



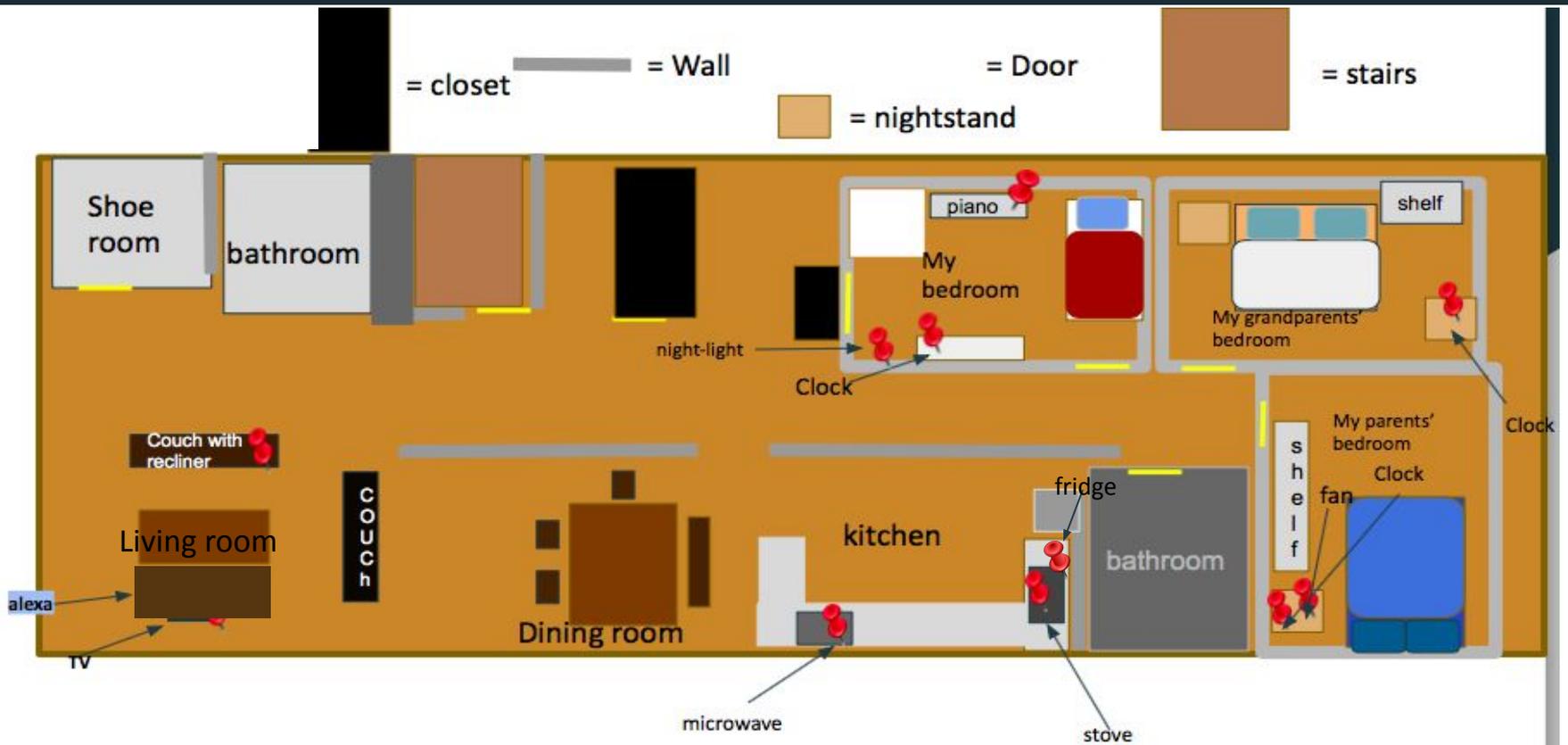
= closet

= Wall

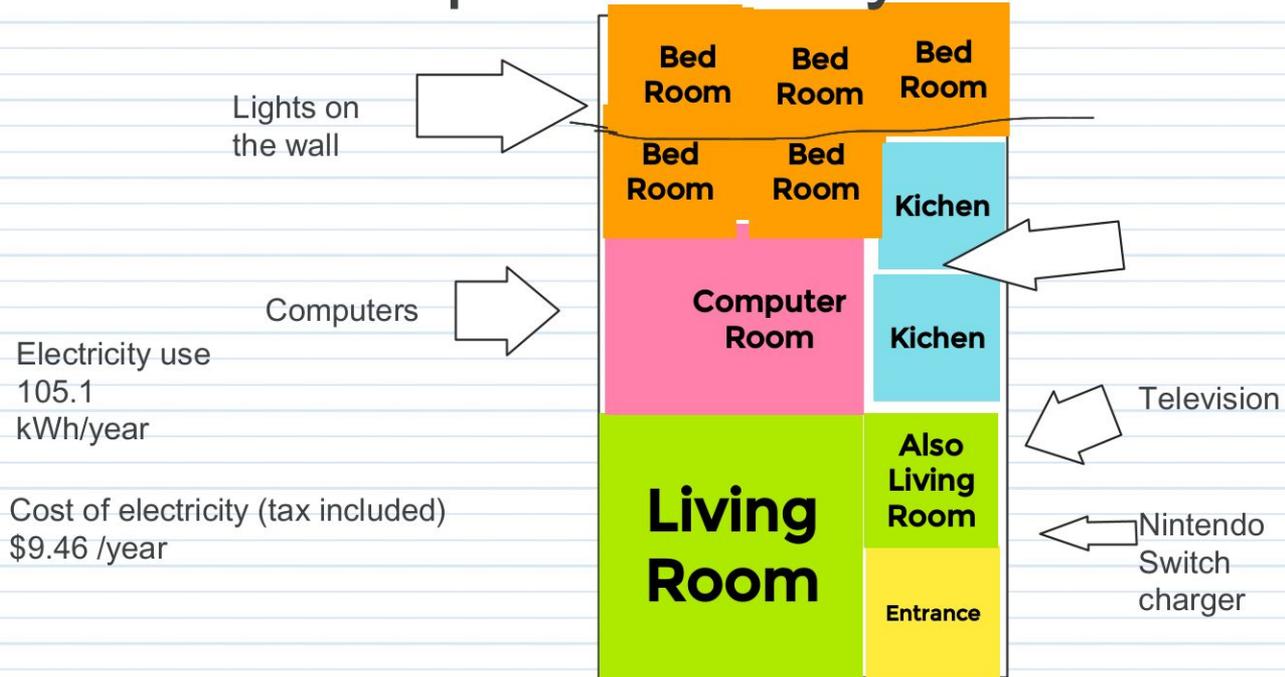
= Door

= stairs

= nightstand



# Phantom power in my house



Here is my house. My house uses \$28 on phantom power.

Kitchen.  
The kitchen has a  
fridge and a  
microwave that use  
a little phantom  
power

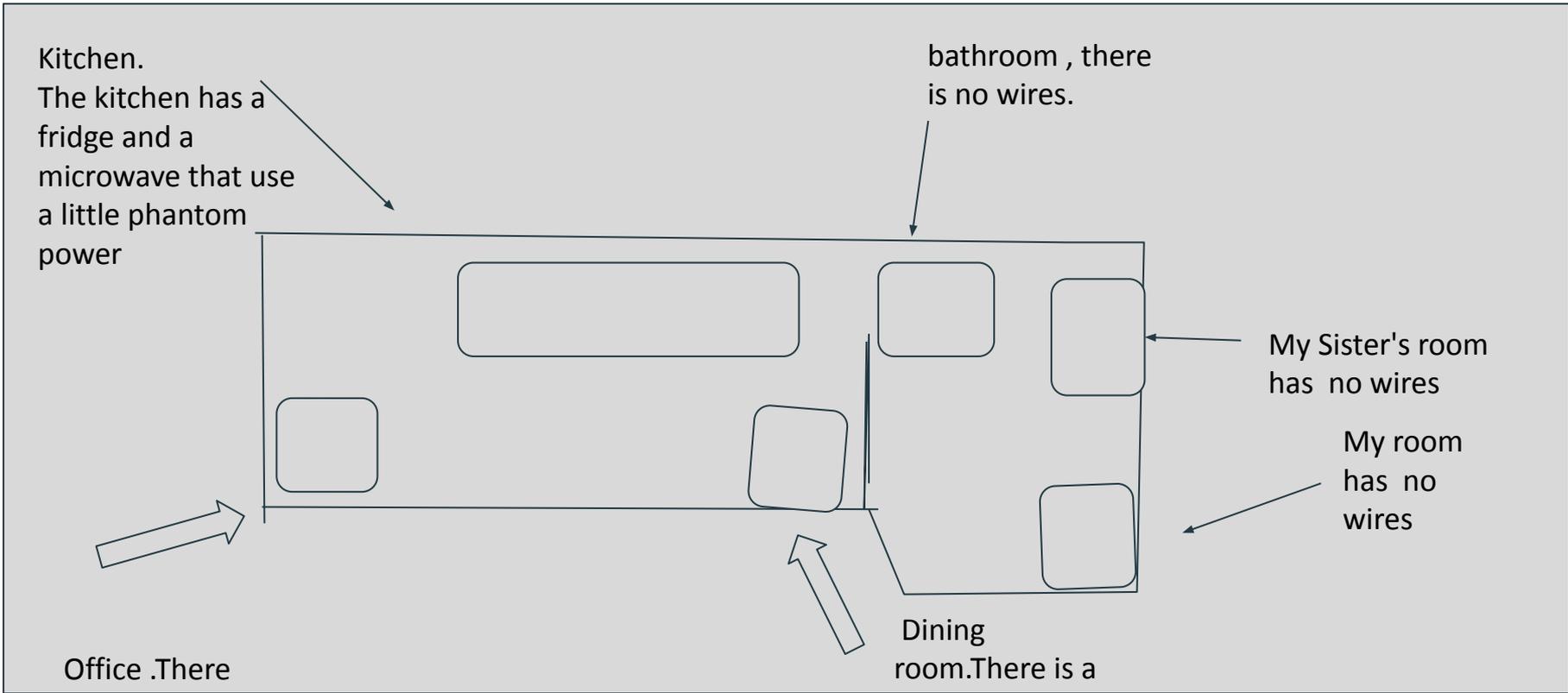
bathroom , there  
is no wires.

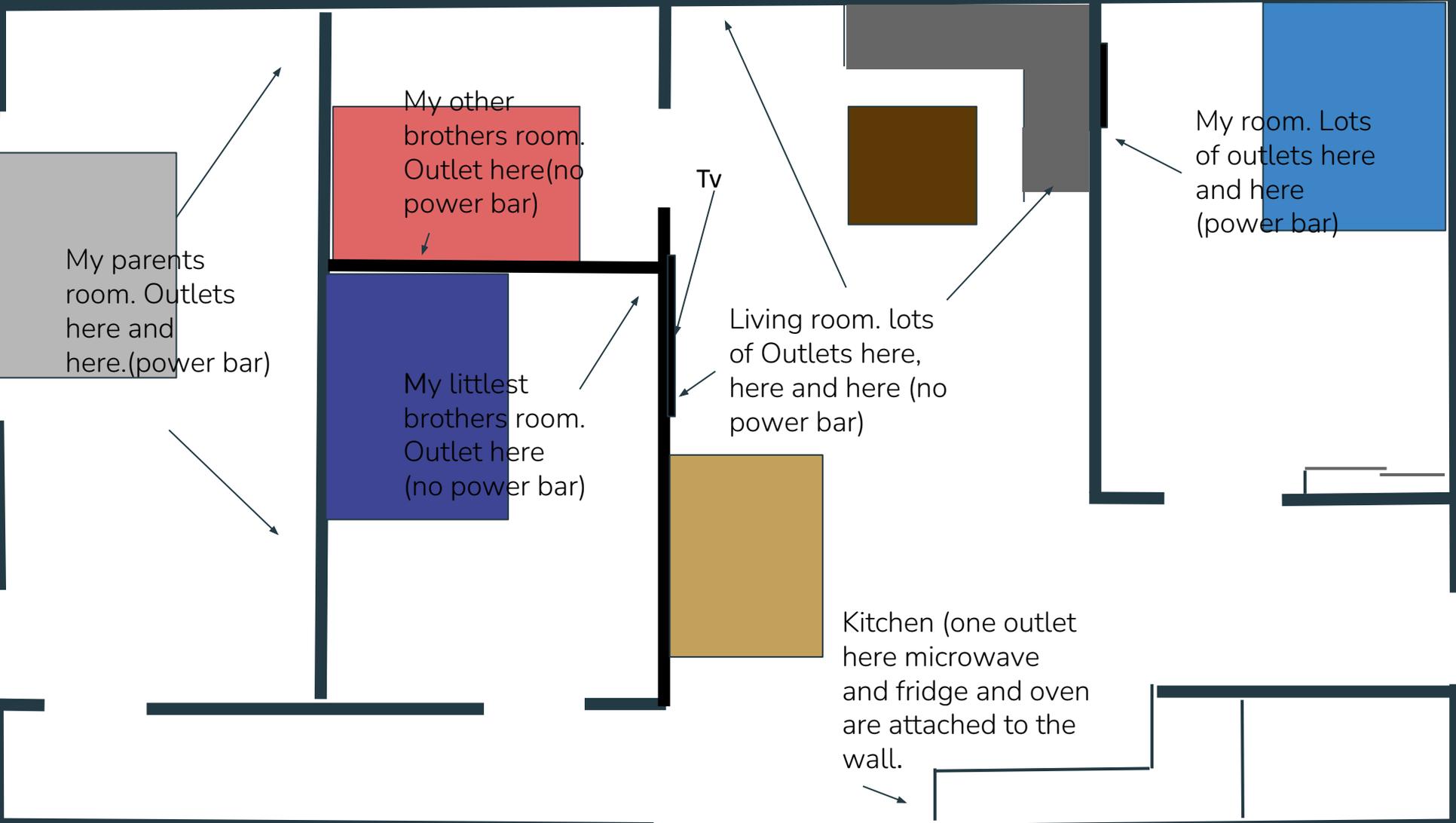
My Sister's room  
has no wires

My room  
has no  
wires

Office .There  
are a lot of  
wires there so

Dining  
room. There is a  
power bar over  
there with





My parents room. Outlets here and here.(power bar)

My other brothers room. Outlet here(no power bar)

My littlest brothers room. Outlet here (no power bar)

Tv

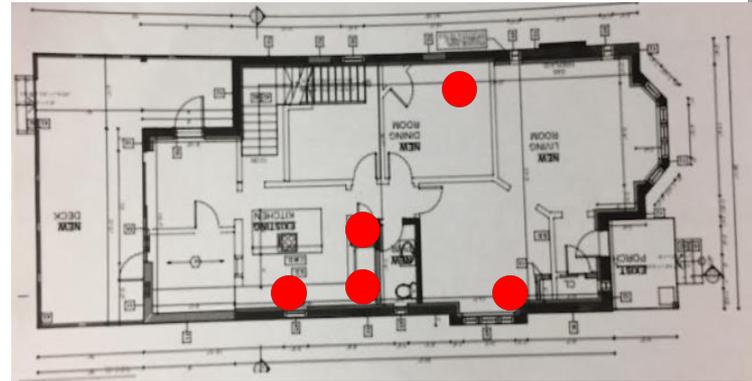
Living room. lots of Outlets here, here and here (no power bar)

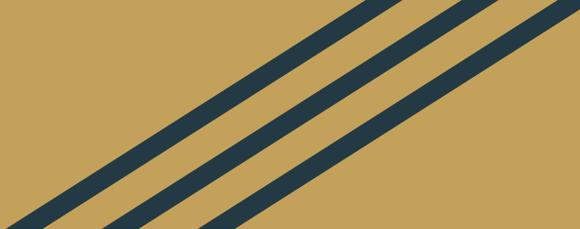
Kitchen (one outlet here microwave and fridge and oven are attached to the wall.

My room. Lots of outlets here and here (power bar)

## Phantom power

*My family spends 20.00 dollars on phantom energy every 365 days just on the main storey. My house has 4 storeys so if each floor costs the same as my main floor it is 80.00 dollars. Wow that is a lot of money but that is just estimating. It really costs 76.20 a little less but still a lot*





## Part 2: Our Reflections



# Question 1: What did you learn by participating in this challenge?

I learned that so much power is being used even when we are not using all of our devices. For example, when I charge my phone without using it, the power is still being used. (ctd.)

(ctd.) SO many people have NO idea how much power is being used. You might think it's only a bit of power wastage but when you add up all of the people who have phantom power, it's a lot.

I learned a lot about phantom power. Though I already knew about phantom power from a book on tumble math. (something on tdsb library that has videos of someone reading a book)

It was about someone with a younger sister and she taught her brother about phantom power. I didn't know that even when my things were off I was still using at least 61.3kWh/year electricity.

I learned that for my house we have to pay \$1000 per year for our electricity. I was very surprised about that. I also learned that I use \$5.52 per year for phantom power.

I learned that what phantom power, how it works and how wastful of electricity it is.

Phantom power is when people plug in a TV and not using it is using phantom power. I also lerned that my family spends \$85 on phantom power evrey year and most of it's spend on my dads headphones

I learned that when we do not use electric devices but they are still plugged in they use power and I don't want to waste power by doing nothing I want to waste it doing something.

but some people don't know that they are hurting the environment and wasting money by not unplugging. we need to help them by telling them to stop using phantom power.

what also suprizd me was I use \$28 on phantom power each year.

I learned what phantom power is and also how I can stop it.

Phantom power happens when you are not actually using that technology but it is still wasting power because it is still plugged in.

One way to stop phantom power is to unplug computers or press the power saving button on video game consoles or T.V's

I learned that if you still have something plugged in it still drains energy and ends up costing you more on your energy bill

I can't believe my family uses so much phantom power! I counted 12 phantom power devices at home!!! I also had NO IDEA that phantom power wastes money. I'll try to unplug everything after I use it.

I learned what Phantom Power is & how 2 prevent it: 1) What is Phantom Power? Phantom Power is a kind of electricity that's used when something is connected 2 the electricity for the majority of the time.

2) How 2 Prevent Usage of Phantom Power: Get a watt meter or online phantom power calculator to determine how much phantom power is being used and unplug the phantom power source for as

much time as possible

Question 2: Will your family take any steps to reduce the amount of phantom power in your home? If so, what are they?

I myself will try not to use so much power and encourage my family to only charge devices when needed. For example, my dad always is charging his iPad, even when it is not needed. He should only charge it when its below 10%. -Lejla

For stuff like toasters, I will try to UNPLUG them when they are NOT in use. Also if you use too much power and we have a power shortage you will not have cold milk for your cereal!

I will try to reduce the energy that I use at home by turning off devices and video game consoles by pressing the power save button on things like Nintendo Switches or TV's.

If I need to charge my phone or my computer then I will not charge it until I really need it like if my phone is 80% I can wait till it is around 20% or lower.

I will also try to take breaks from my video games so the computer does not need to even charge so I won't have to use the energy that much.

My family will get a watt meter to measure how much the daily use of phantom power is

We are already saving phantom power because we have a X-box and we have a power bar that has the cord of the X-box, the speakers and the other things. We also turn off our printer when we are done with it.

I think I will also talk to my family to not charge things when they don't need to be charged.

**My family will stop using a lot of wires and when we don't need them my family will plug it out. I will keep a eye on the wires.**

**My family will try to unplug the devices when they aren't in use. For the devices that are in the wall(such as the microwave) I'll ask my family to find a way to fix those.**