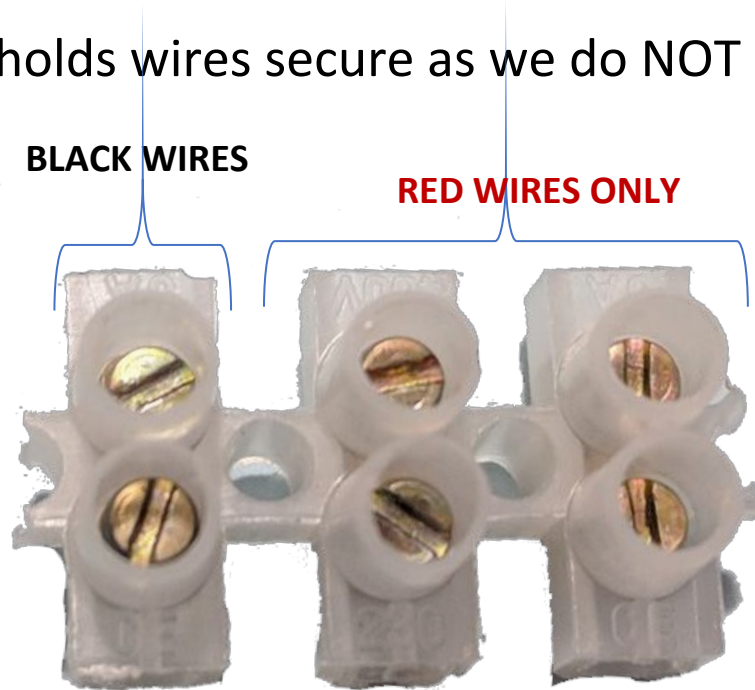


3. How to Wire & Code Your Grow Lamp



Connecting your wires

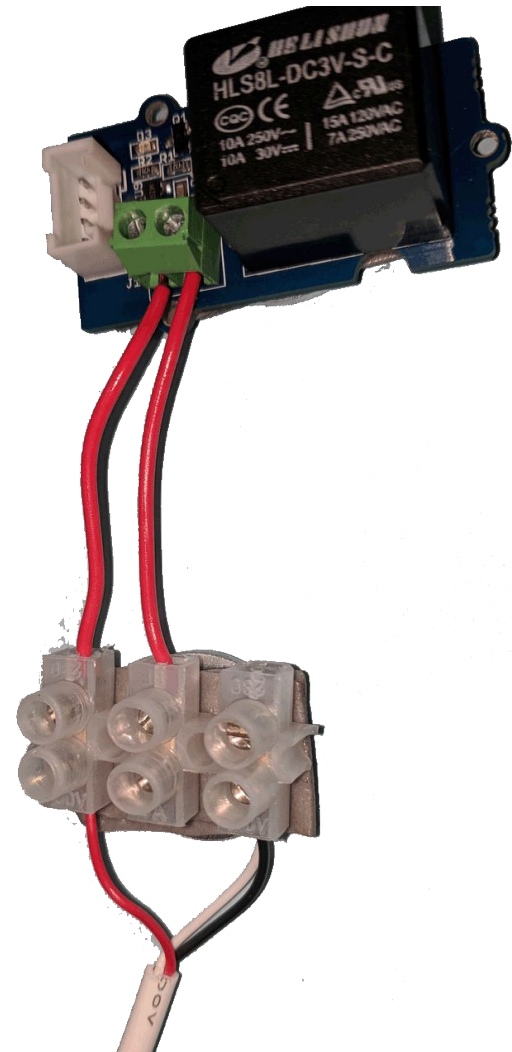
- Terminal Block – holds wires secure as we do NOT want red and black wire touching

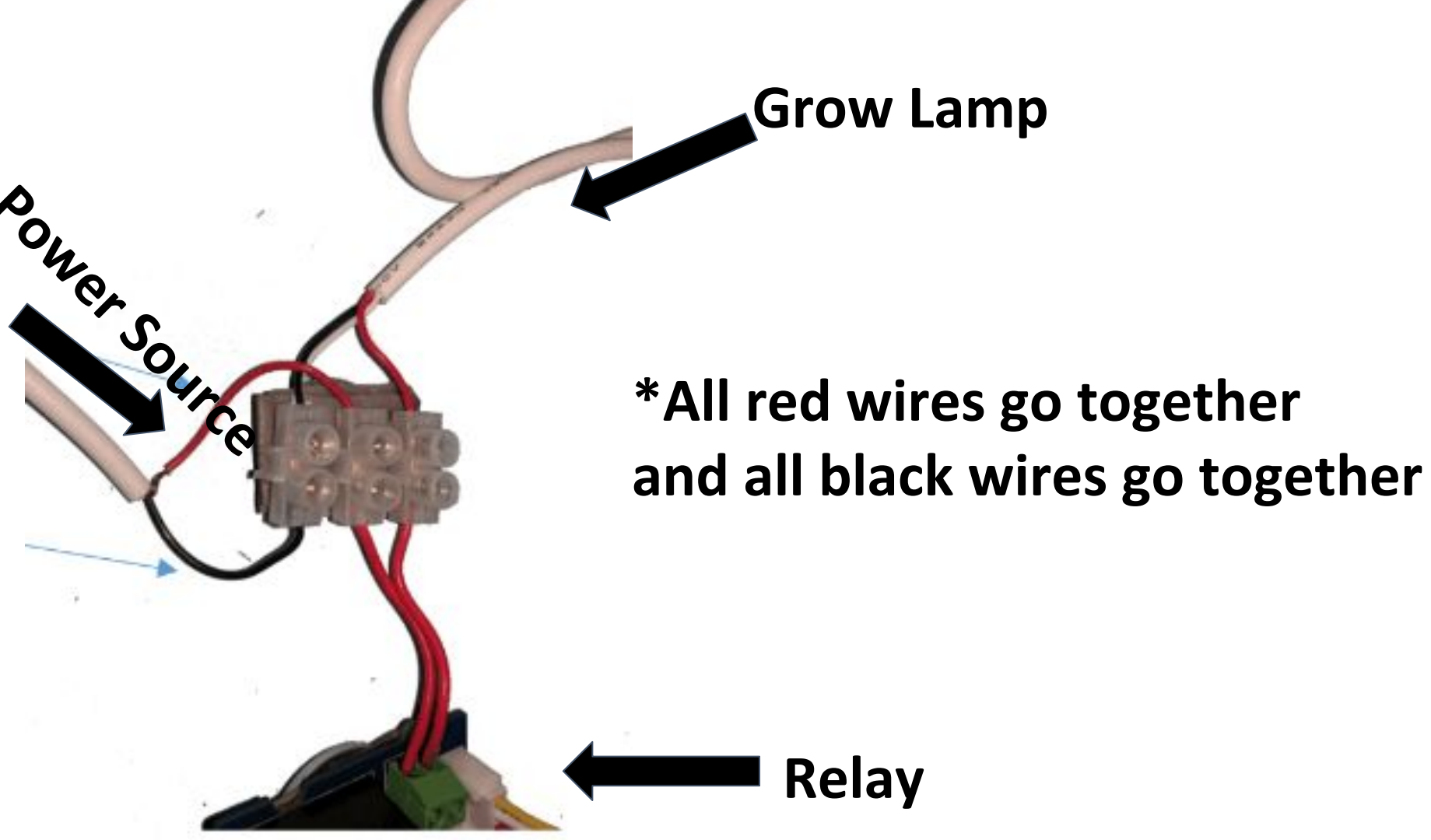


Unscrew the screws
and put in the cable

How to wire your terminal block

1. If not done, loose screws on your relay and insert one red wire into each terminal on your relay.
2. Unscrew the top screws of your terminal block
3. Connect your Grow Lamp USB cable to the terminal block. The red wire connects to one red cable and the black/white wires connect to an open terminal.
4. Tighten the screws and give the wires a gentle tug to make sure they will not come out. If you have trouble try folding the exposed wire to make it a little thicker.





Coding Directions:

1. Get out computer and open EsPy
2. Open a NEW file using EsPy
(File → New → Python)
3. Save under your group's folder
(Desktop → *double click* Purple
1A)
4. Save as "Grow Lamp"
5. Type the following code →

```
1
2  from actuators import Relay
3  import time
4
5  LUX_HIGH = 1000
6
7
8  relaylight = Relay(2)
9
10
11  while True:
12      relaylight.on()
13      time.sleep(4)
14      relaylight.off()
15      time.sleep(4)
```