



# Thinker1 Light Sensor

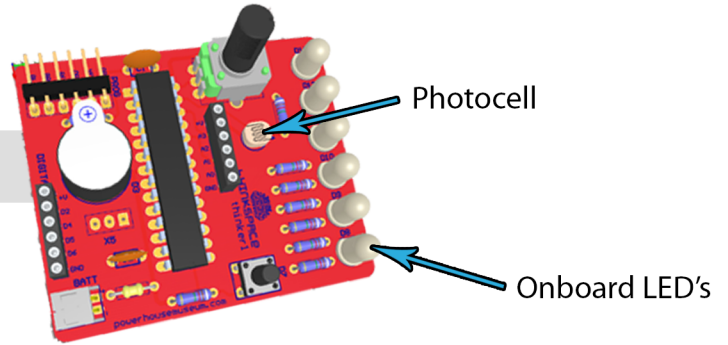
Activity One



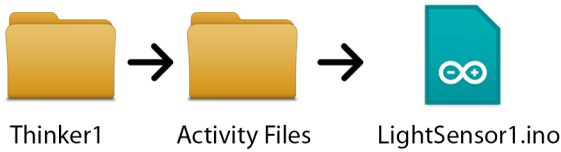
## What are we doing?

We will read values of the photocell (or light sensor) and then use those values to control and LED.

## What parts of the board will you be using?



## What files will we be using?



## Instructions

### Step 1

Open the file:  LightSensor1.ino

### Step 2

Look for the comment //turn the serial port on and insert this code underneath:

```
Serial.begin(115200);
```

This will activate serial monitor on so you can use it to read values.

### Step 3

Look for the comment // read the input pin and insert this code underneath;

```
value = analogRead(lightPin);
```

This will put the value of the light sensor into a variable called 'value'

It will return values of 0 to 1023.

### Step 4

Look for the comment // print the contents of the variable to the serial monitor and insert this code underneath;

```
Serial.println(value);
```

This will print the value to the serial monitor so you can see it.

### Step 5

Upload your program and then open the serial monitor by clicking the magnifying glass icon in the top right corner.

Make sure the baud value is set to 115200.



Expose the light sensor to varying amounts of light to see the values change.

## Program Logic

