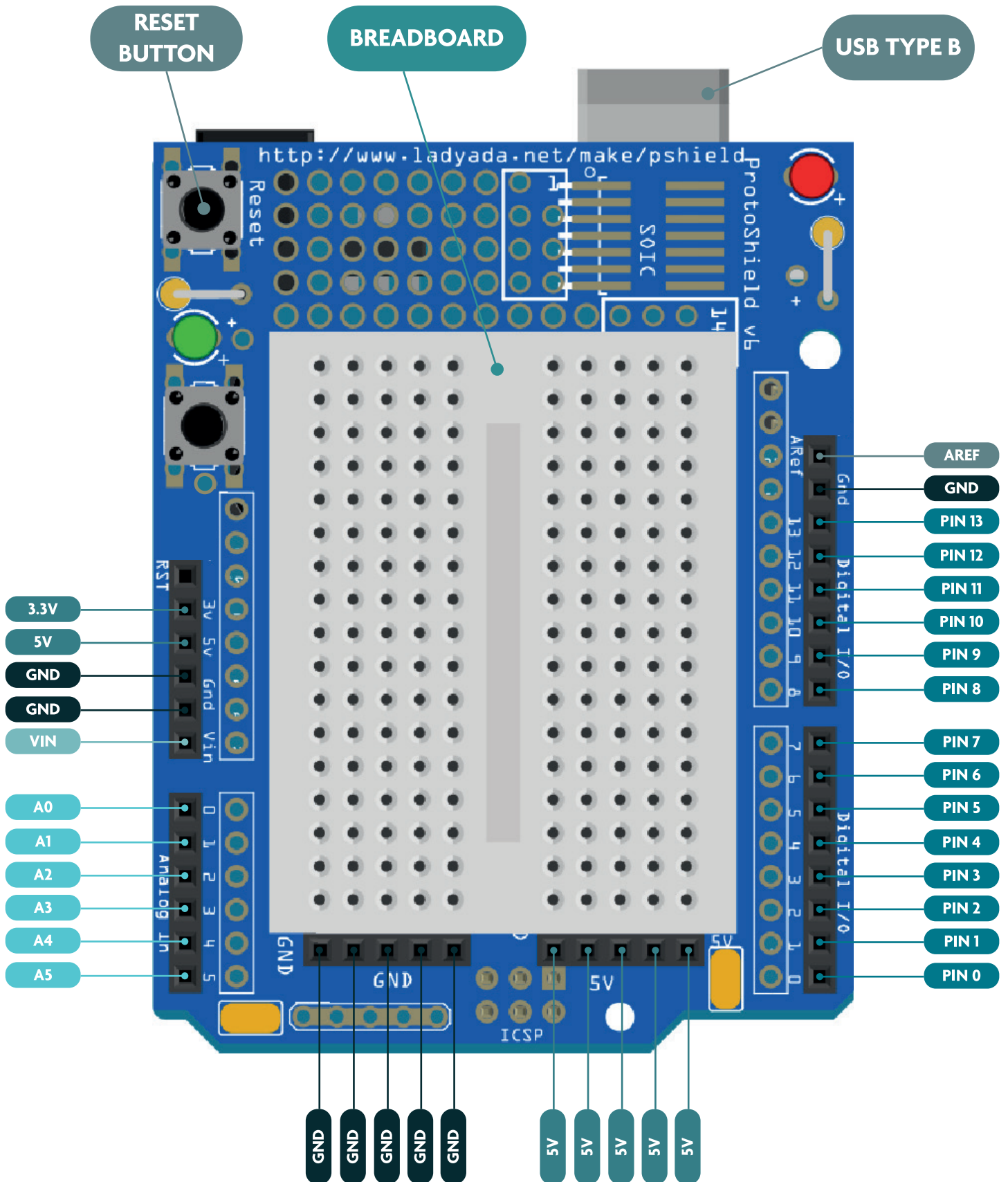


House of the Future

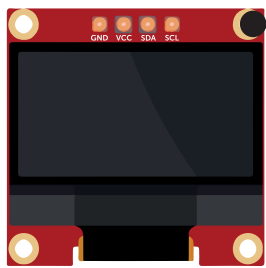
Circuit Instructions

ARDUINO UNO R3 EXPLAINED



Tip: Count digital pins from 0 to 13 and analog pins from 0 to 5, to find the right one.

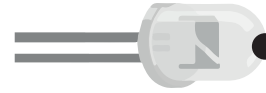
COMPONENTS



OLED Screen
x1



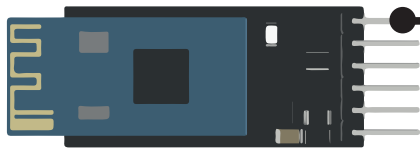
Red LED
x1



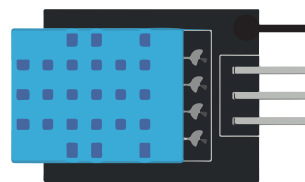
White LED
x3



LM2596
x1



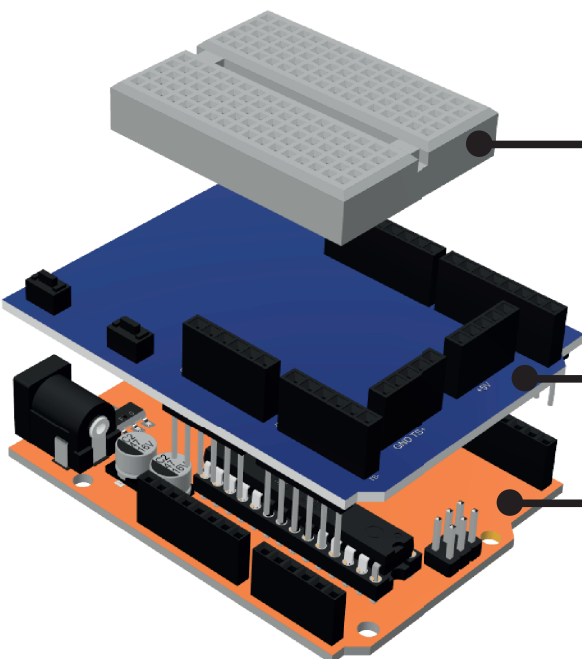
HM10
x1



DHT11
x1



Solar Panel
x2



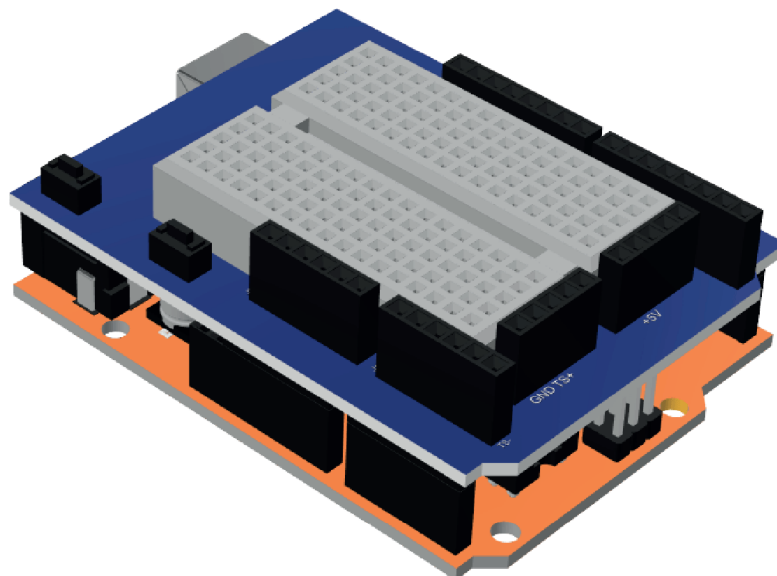
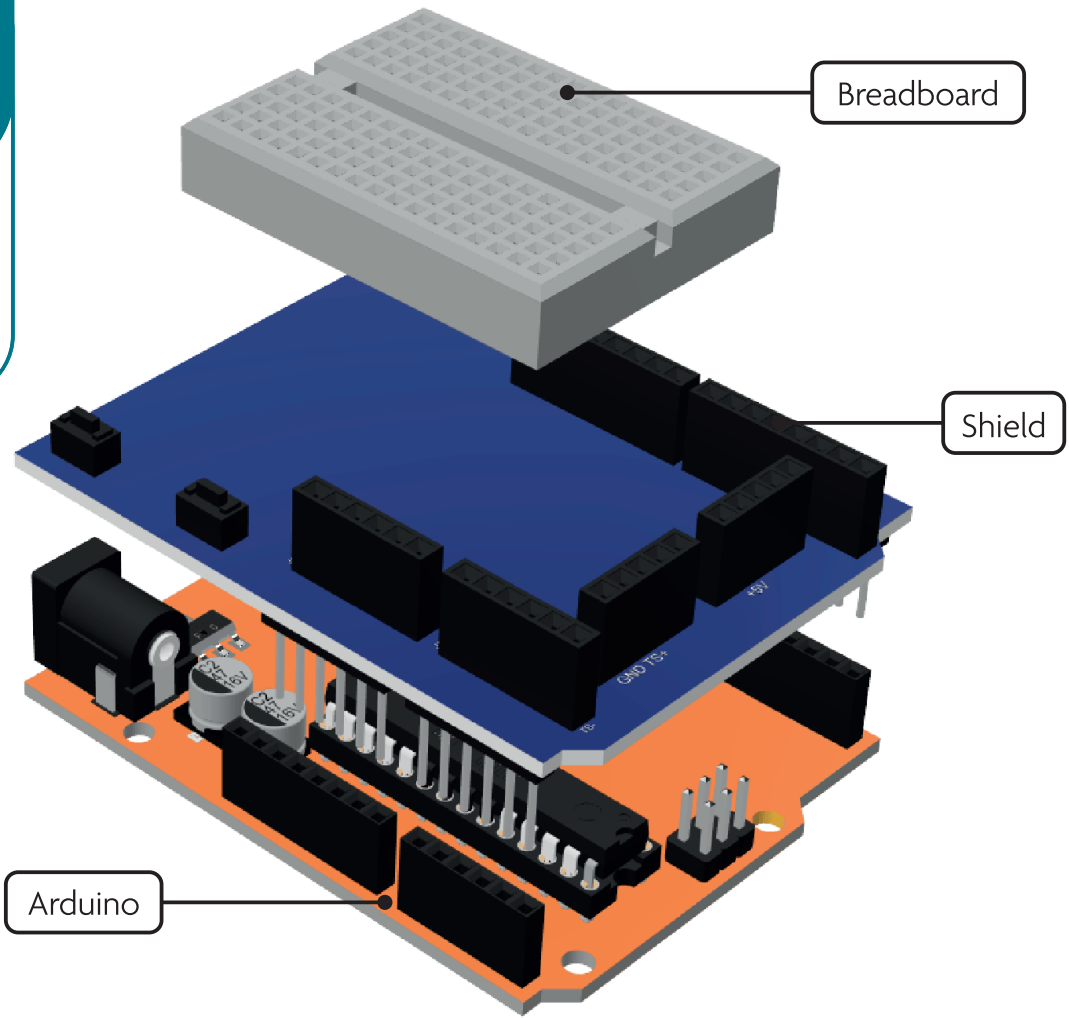
Breadboard
x1

Arduino Shield
x1

Arduino Uno
x1

1

Arduino Uno
Shield
Breadboard

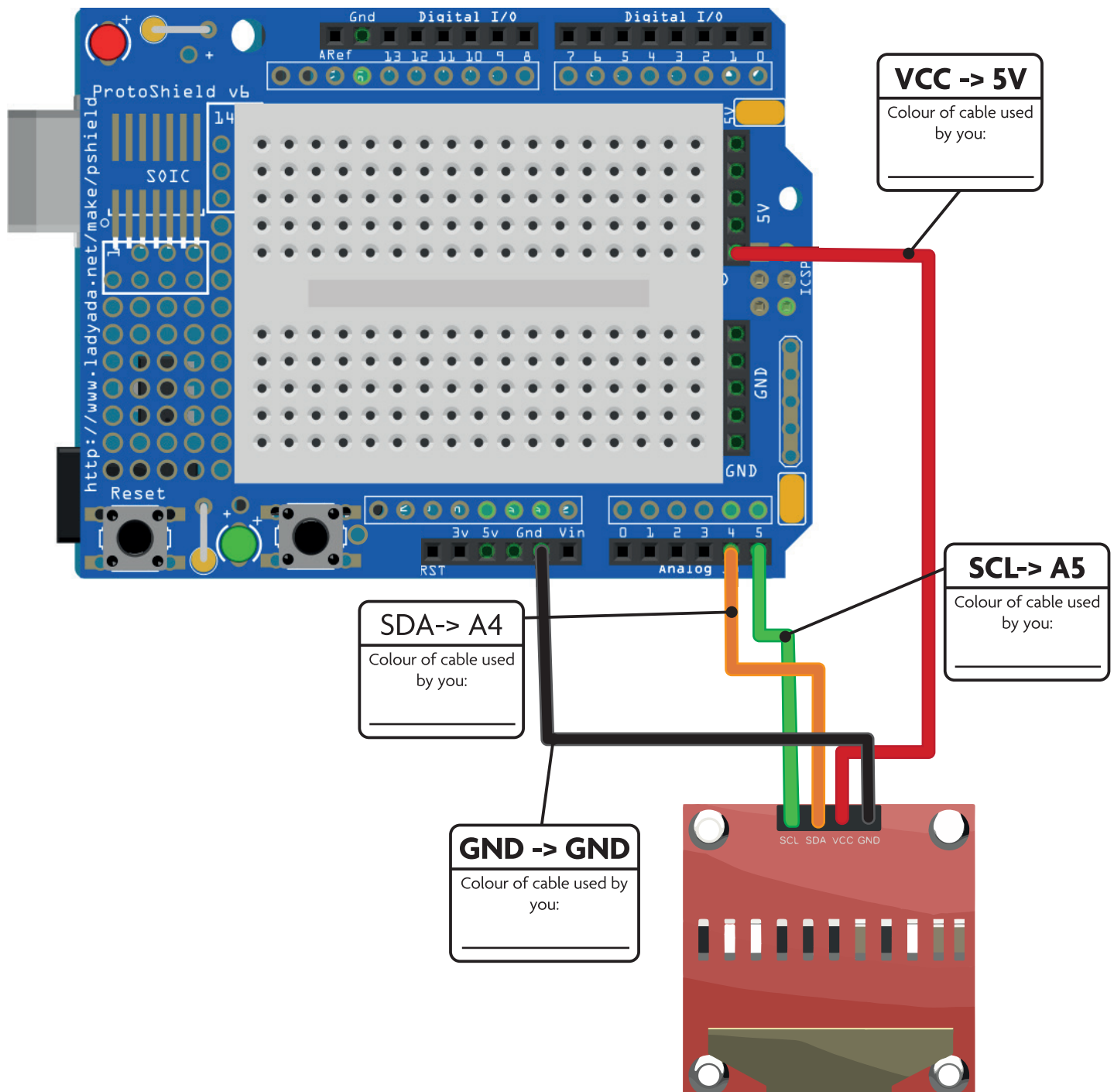


2

OLED Screen
Male to Female
Cable x 4

0.96 OLED - Arduino

GND -> GND
VCC -> 5V
SDA -> A4
SCL/ SCK -> A5



3

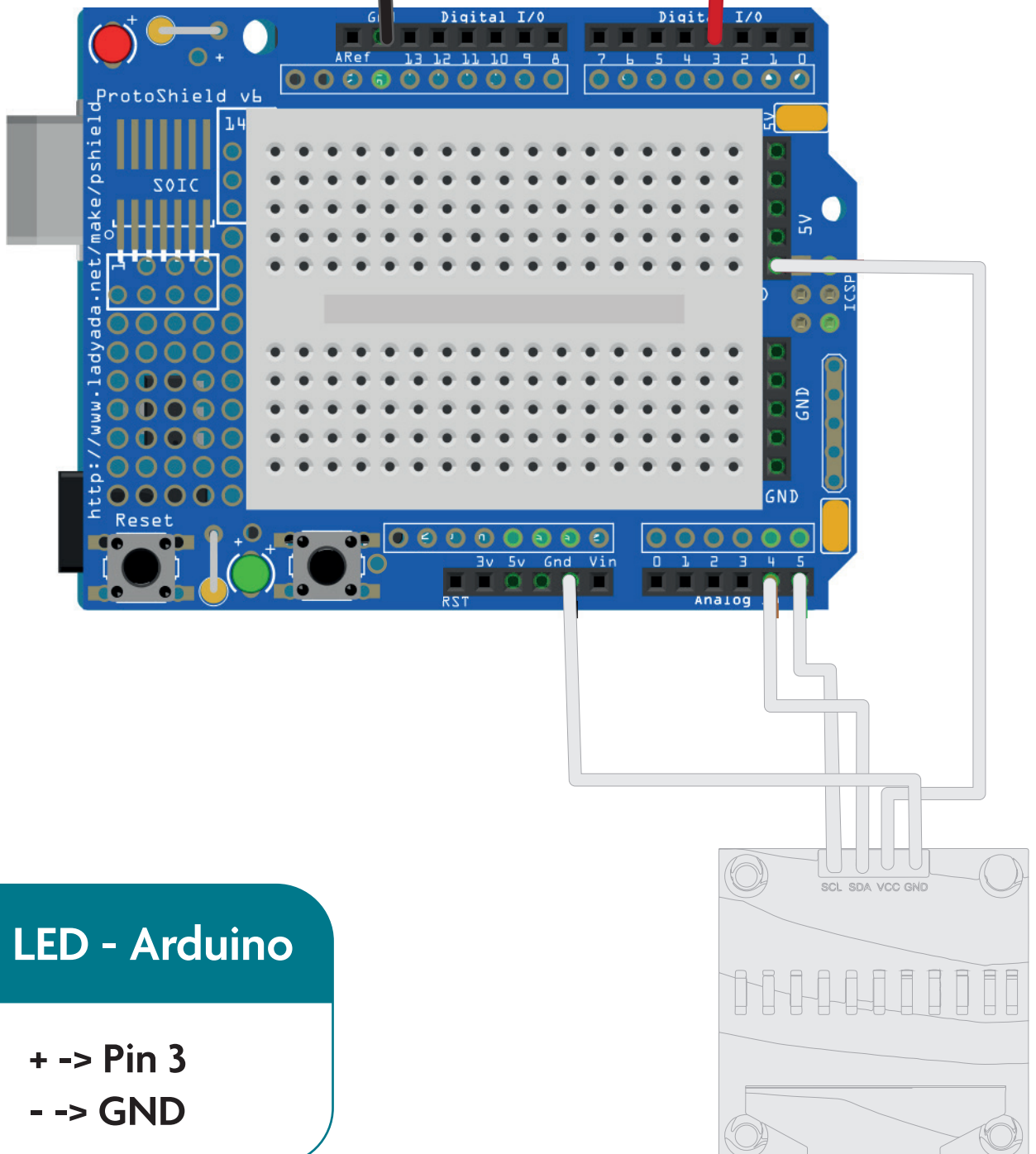
Red LED x 1

Negative -> GND

Colour of cable used by you: _____

Positive -> Pin 3

Colour of cable used by you: _____



Red LED - Arduino

+ -> Pin 3

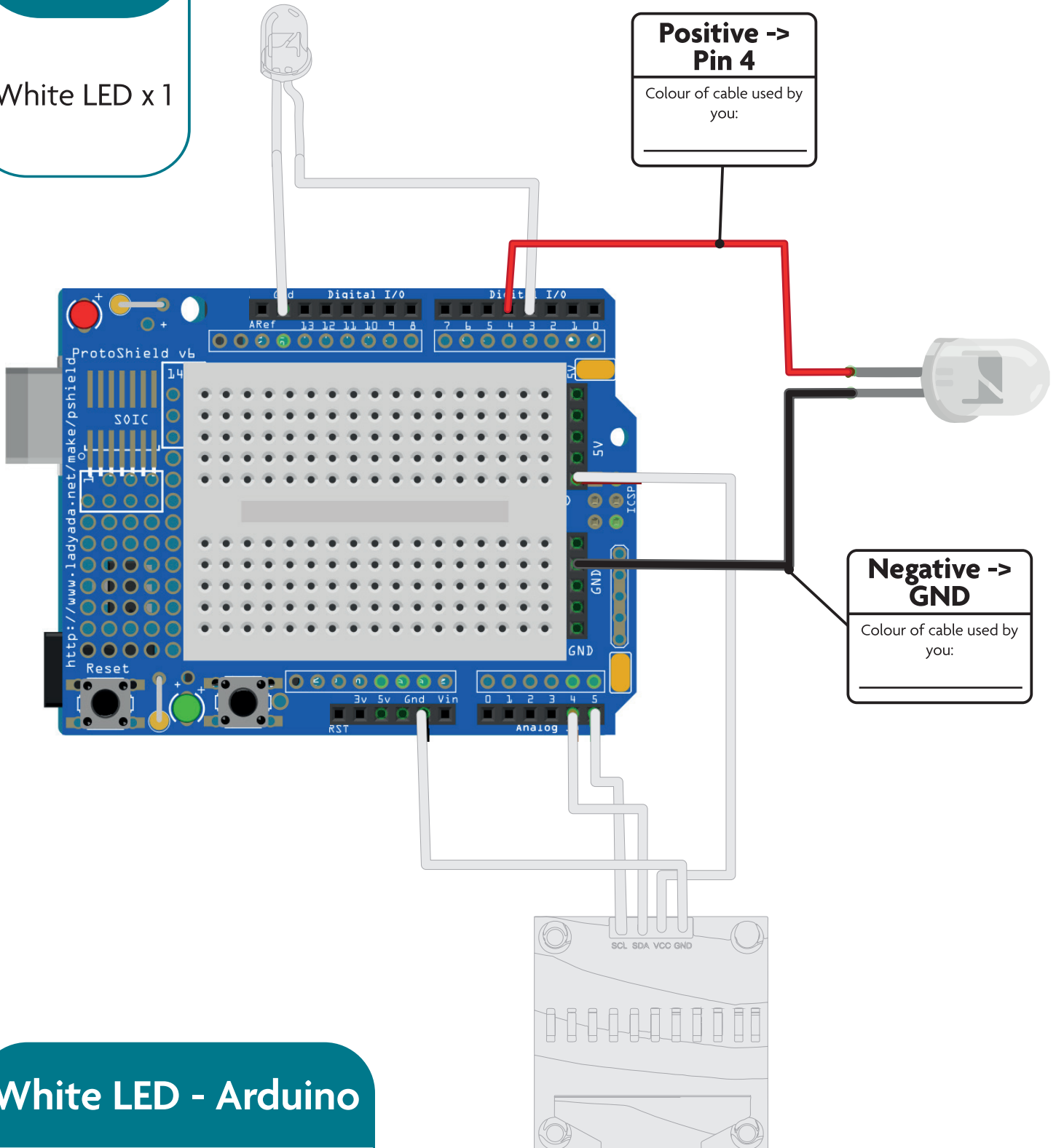
- -> GND

4

White LED x 1

**Positive ->
Pin 4**

Colour of cable used by
you:



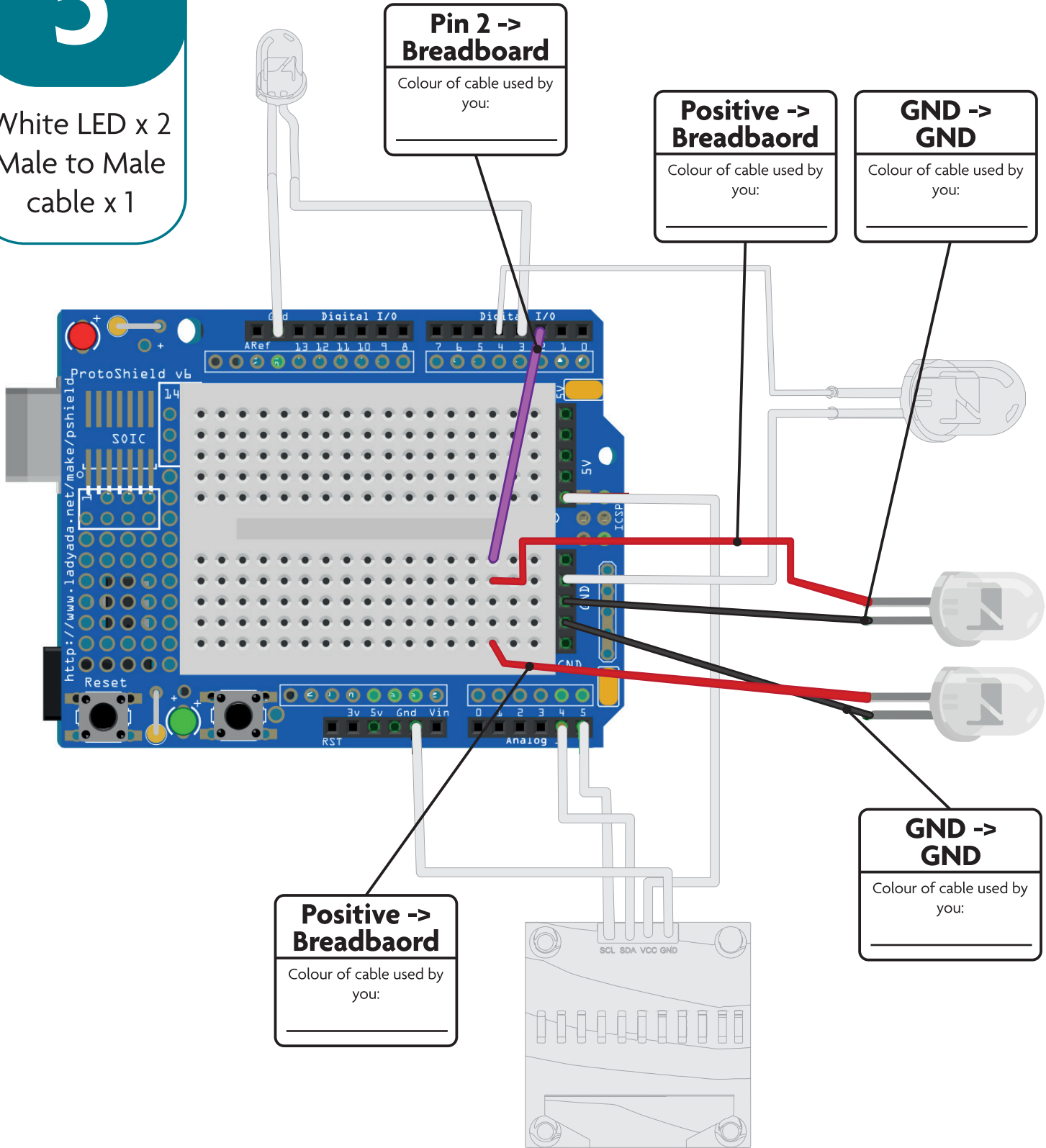
White LED - Arduino

+ -> Pin 4

- -> GND

5

White LED x 2
Male to Male
cable x 1

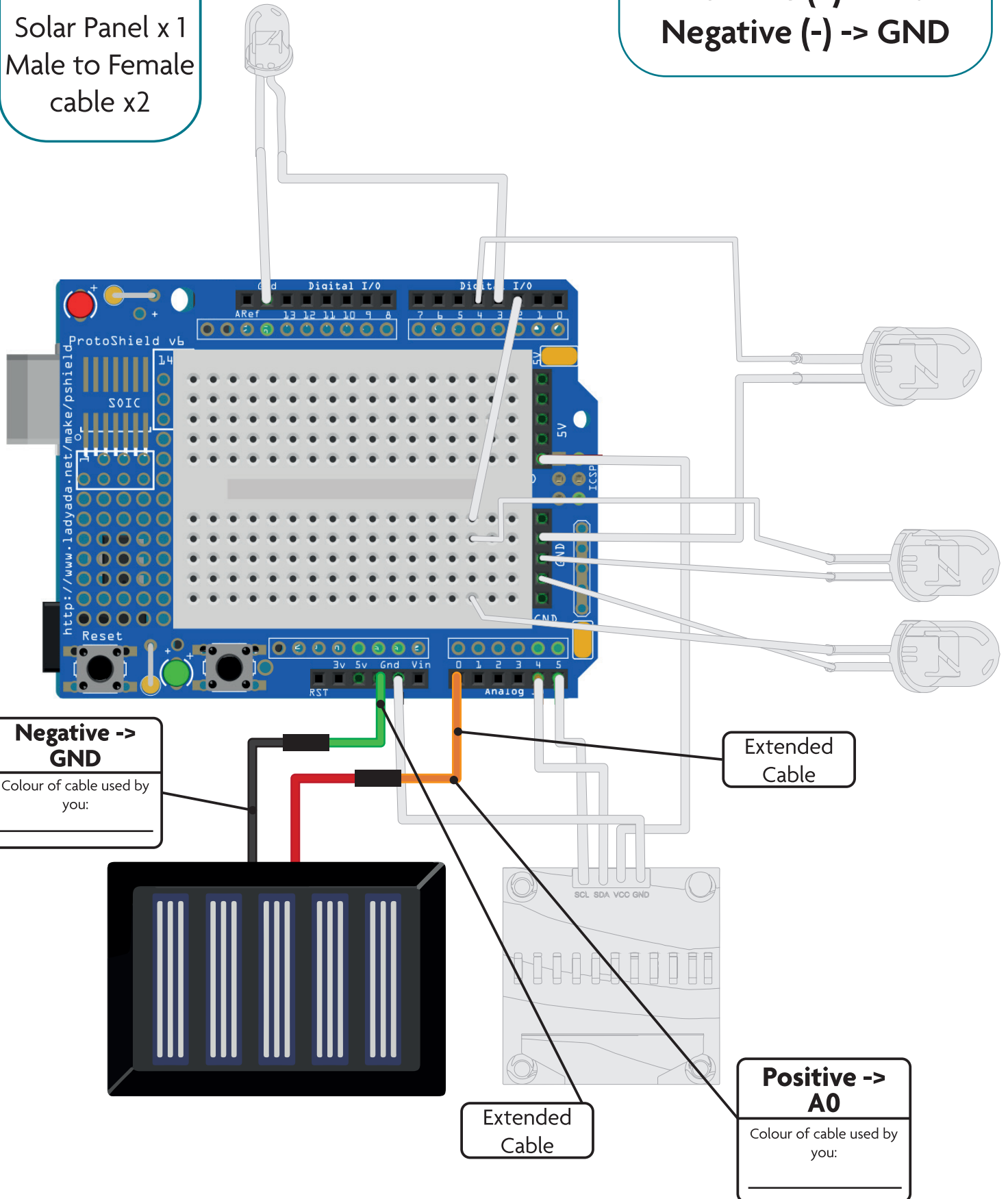


6

Solar Panel x 1
Male to Female
cable x2

Solar Panel - Arduino

Positive (+) -> A0
Negative (-) -> GND



7

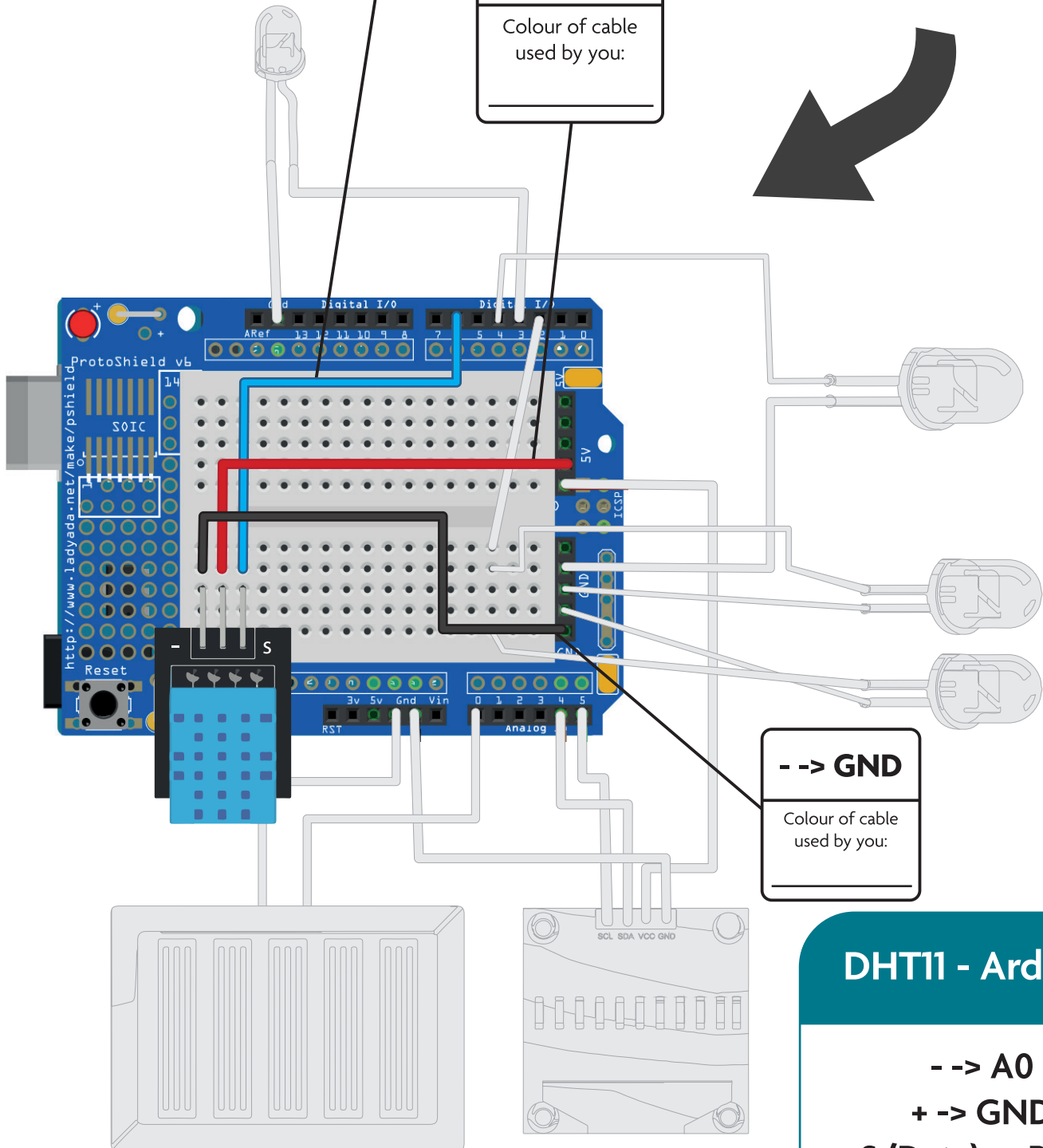
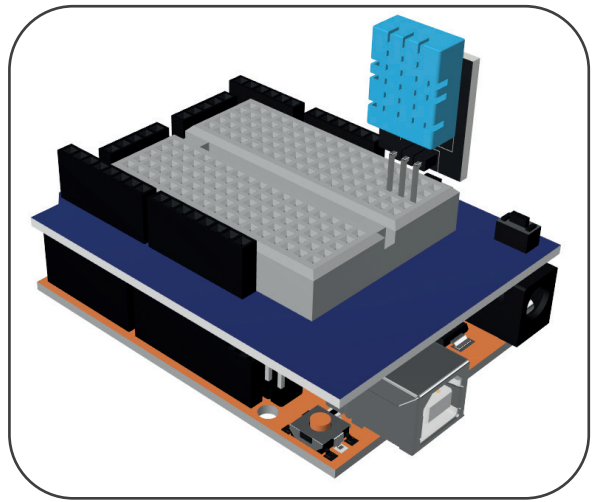
DHT11 x 1
Male to Male
cable x 3

S (Data) -> Pin 6

Colour of cable used by you:

+ -> 5V

Colour of cable used by you:



- -> GND

Colour of cable used by you:

DHT11 - Arduino

- -> A0

+ -> GND

S (Data) -> Pin 6

8

HM10 x 1
Male to male
cable x 4

RX -> Pin 9

Colour of cable used by
you:

TX -> Pin 8

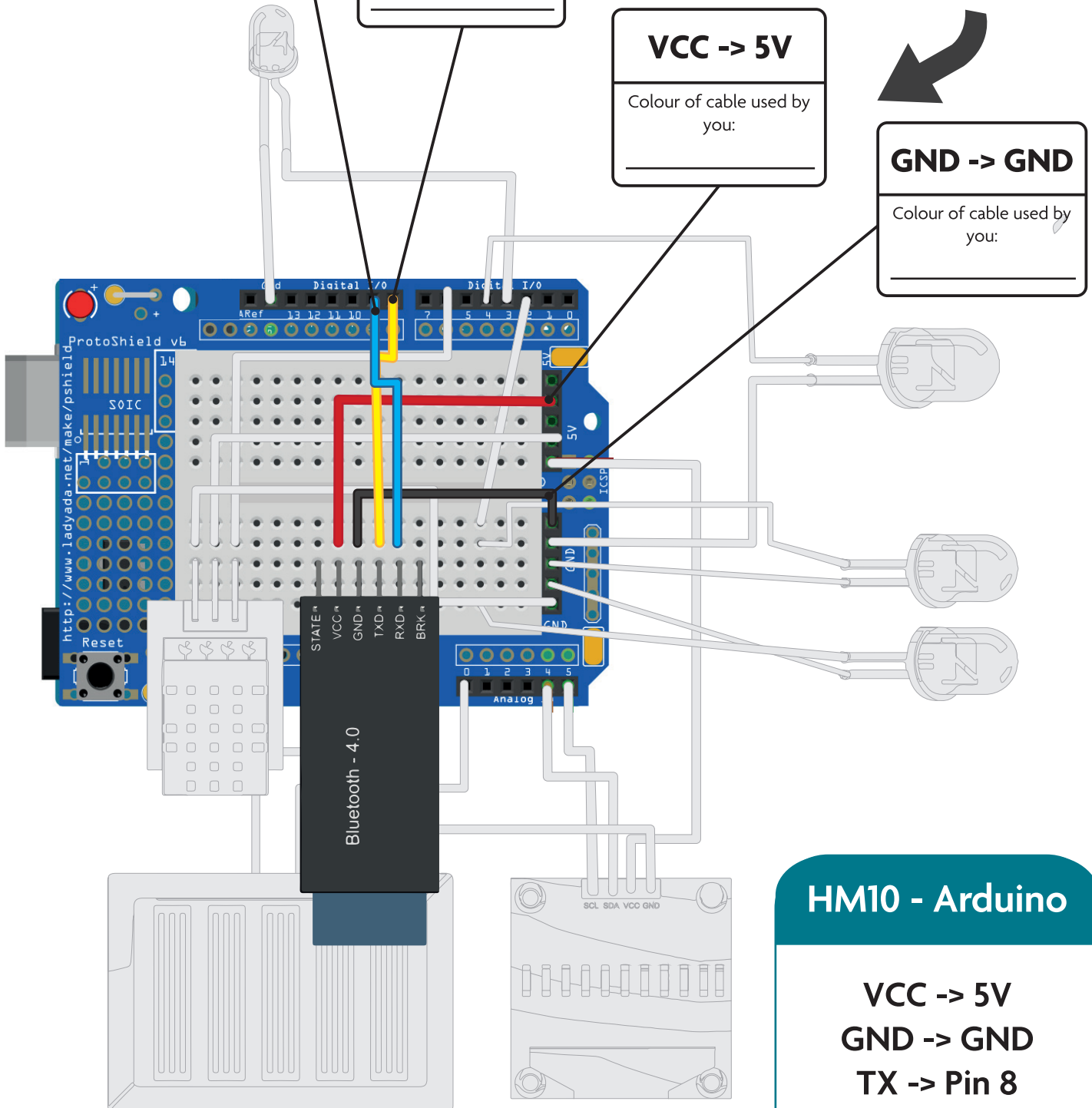
Colour of cable used by
you:

VCC -> 5V

Colour of cable used by
you:

GND -> GND

Colour of cable used by
you:



HM10 - Arduino

VCC -> 5V
GND -> GND
TX -> Pin 8
RX -> Pin 9

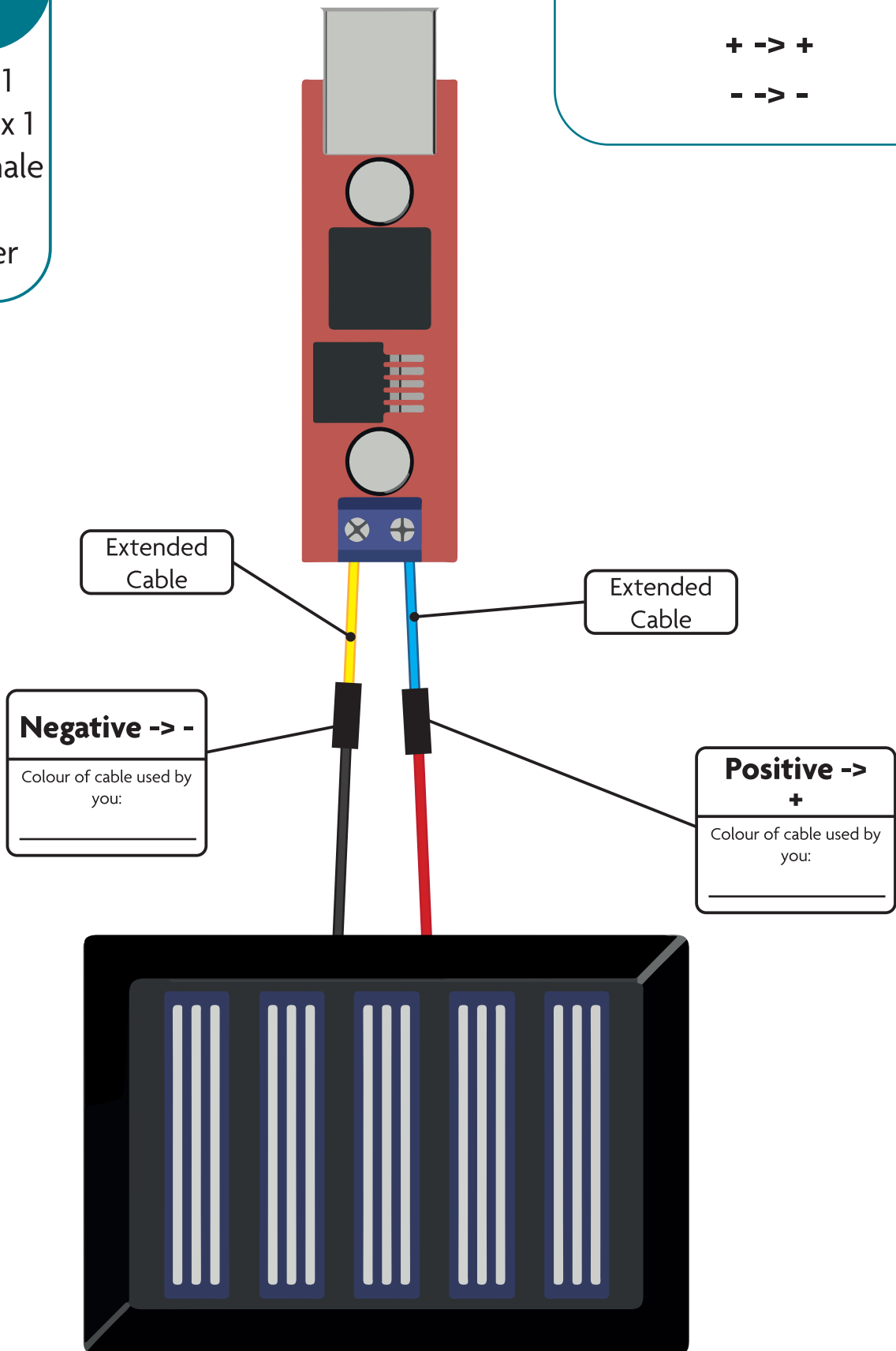
9

- LM2596 x 1
- Solar Panel x 1
- Male to Female cable x 2
- Screwdriver

Solar Panel - LM2596

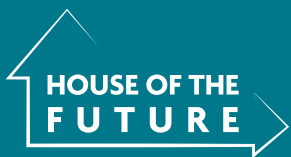
+ -> +

- -> -



NOTES

A large rounded rectangular box with a teal border, containing 20 horizontal teal lines for writing notes.



Rewise



Wates