The Education University of Hong Kong
2021-2022 Quality Education Fund Thematic Network – Tertiary Institutes STEM Project Team

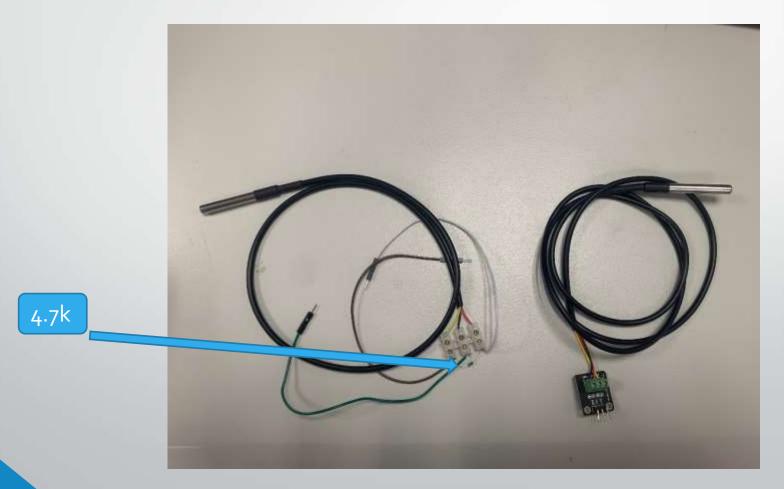SCHOOL: TWGHs C.Y. MA MEMORIAL COLLEGE (S1)

TOPIC: TEMPERATURE MONITORING SYSTEM WITH SMART SCIENCE IoT KIT
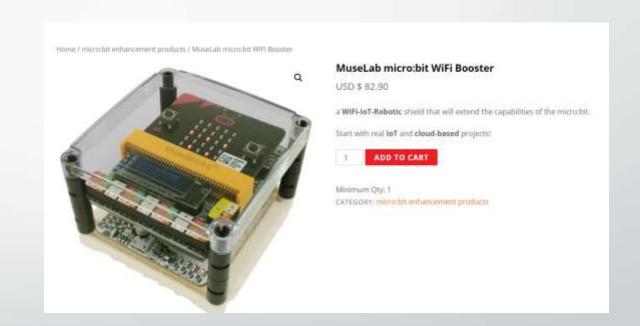
Temperature Sensor
DS18B20

4.7k

Micro:bit IoT Extension Board
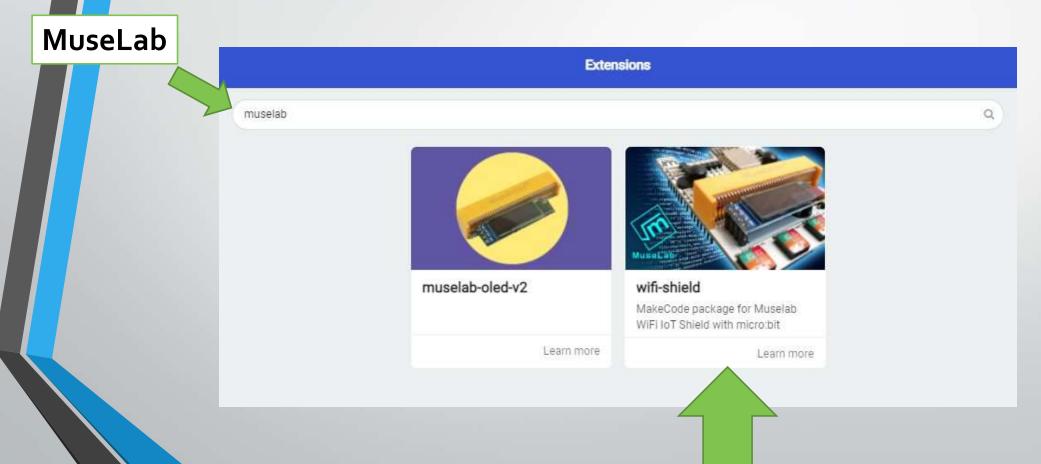

Smart Science IoT Kit
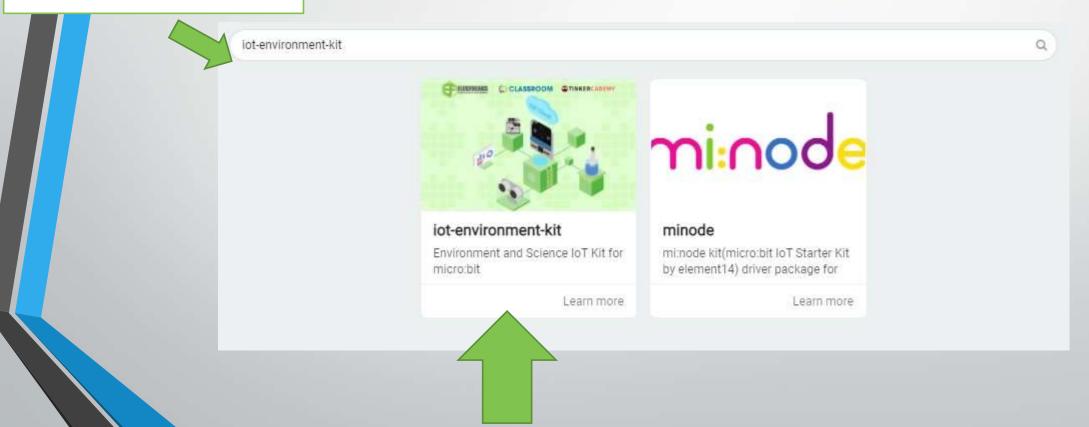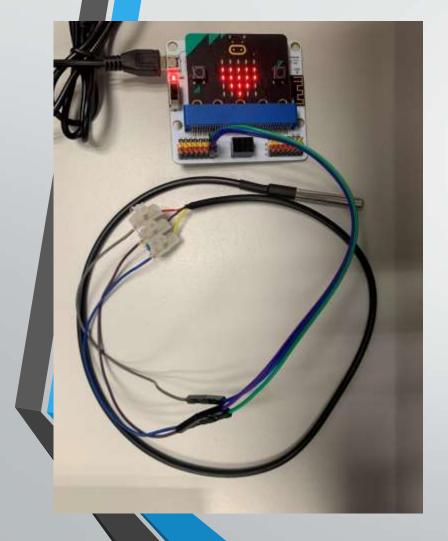~HKD 628

MuseLab
~HKD 646

Extensions (1)

MuseLab

Extensions (2)
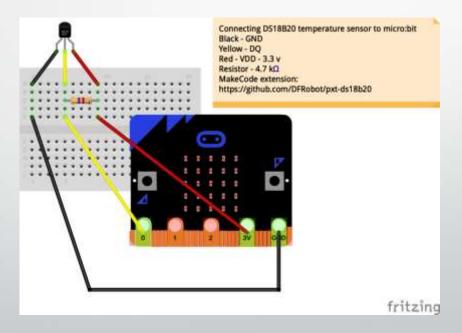
Iot-environment-kit

Circuit

Connecting DS18B20 temperature sensor to micro:bit
Black - GND
Yellow - DQ
Red - VDD - 3.3 v
Resistor - 4.7 kΩ
MakeCode extension:
https://github.com/DFRobot/pxt-ds18b20

Code
(Smart Science IoT Kit)

Code (MuseLab)

Q & A