STEM Applied Learning Programme

Lesson Outline

STEM Theme	eWater Sensors & Water Technology
Module	1 (Basic Water Sensor)
Total Hours	10

No.	Topic
1	Intro to ALP, Course outline, Water quality monitoring system
2	Temperature/Electricity, characteristics of a thermistor
3	Water quality and temperature
4	Introduction to Arduino
5	Connecting a thermistor to Arduino
6	Programming the Arduino to measure and display sensor signals
7	Performing math operation on sensor data
8	Linear approximation and calibration of the sensor
9	Project Work1: building a multiple temperature sensor system
10	Project Work2: using Temperature sensor system/intro to Remote Sensing Platform