OK Sparks! Tiffin Tin

Like Wray Castle this tin contains many layers: in each layers are things to help you continue to explore the world of the *Ok Sparks!* project. It's also a handy tin for storing freshwater samples, keeping PCBs dry and lunches fresh!

Sensor Communication Layer
Post sensor data over radio!
Freshwater Layer
Petridish, litmus paper and Animal Identifiers!
Wray Castle Boardgame Layer
   Boardgame based on the Wray Castle Text Adventure!
      Tourism Layer
         Traditional souvenirs and factoids from the OK Sparks research!

Sensor Communication Layer

The **ESP8266** WiFi module has caused quite a stir in the emerging world of **The Internet of Things (IoT)** which has parallels with the radio innovations of the RMS Wray Castle of the past. We've packaged up a **cocklecraft-of-things** kit to help you prototype freshwater data collecting on the internet. Inspired by **start.shrimping.it** the cocklecraft kit instructions live here: **https://github.com/mcqn/cocklecraft-of-things**

Sparkfun ESP8266 Thing Development Board
Arduino breakout on breadboard with voltage regulator, LiPo Battery Charging, onboard antenna & jumper wires
DALLAS One Wire DS1820B
   Cheap & reliable digital Waterproof temperature sensor with breadboard terminal block
      850mAh Lithium Polymer Battery *Off grid sensing with a rechargeable battery*
         FTDI FT232RL USB -TTL Serial Converter
            Programme your sensor board with the Arduino IDE

Freshwater Layer

Inspired by the Easter Class this layer contains some useful things for sampling freshwater invertates. But what it really needs is a microscope which we just can't include but you could always 3D print one at your local makerspace like at **doesliverpool.com http://www.thingiverse.com/thing:77450**

Petri Dish / Microscope slides
Post sensor data over radio!
   Petridish, litmus paper and Animal Identifiers!
      Animal Identifier
         Boardgame based on the Wray Castle Text Adventure!
            Litmus Paper
               Not a bad idea to

OK Sparks! Tiffin Tin

The board gam§e is...

OK Sparks! Tiffin Tin
Disclaimer

https://github.com/mcqn/cocklecraft-of-things