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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!

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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 **cockle-raft-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/mcqnl/cockle-raft-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

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Freshwater Layer

Inspired by the Easter Class this layer contains some useful things for sampling freshwater invertebrates. 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

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OK Sparks! Tiffin Tin

The board game is...

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OK Sparks! Tiffin Tin Disclaimer

Like Wray Castle this tin contains things that could be dangerous if you don't take care. If you are under 18 you must use the contents with an adult's supervision. If this kit comes into your possession **DomesticScience** accept no liability for the misuse of the items in the tin or the users personal safety. Please take note of the guidelines below:

Small sharp parts - Don't eat components ! They are generally sharp and contain materials if ingested that are poisonous **Lithium Polymer Battery**-The Battery in this kit is poisonous and will not take kindly to being heated or damaged in any way. We advise that any charging take place supervised and not overnight on it's own. **It might not work first time**: raise an issue on github.com/mcqnl/cocklecraft-of-things/issues if u need help!

<https://github.com/mcqnl/cocklecraft-of-things>