

BATTERY POWERED WATER FEATURE

By Harrison Taylor 2AR

It all started at school with the young scientist program.

I chose MODEL & INVENTIONS because I wanted to challenge myself.

I wanted make a water feature because when I go to the hardware and gardens with my dad I always like looking at water and how it moves.

I started designing the model at school and drew a lions head with water coming out and lights around the top. I talked to my Dad about how we could make it work because I couldn't use electricity.

So we decided to make a battery powered water feature.

We did some research on the internet and found a way to make a pump using a battery.

I collected some bottle tops and pipe and other bits and went to Jaycar to buy a small motor and switch. My Dad helped me cut plastic and stick together to make the fan and pump and I made the lions head with clay.

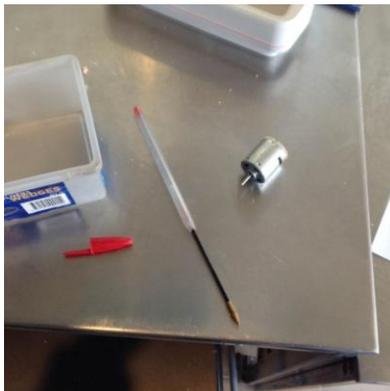
He also showed me how to solder the wires onto the switch and onto the battery pack which was from a old helicopter controller.

I glued a legoman one the side to control the switch.

I was so happy when it finally worked.

What I used to make it

- Small motor
- Milk bottle lid
- Old straw spoon
- Pen
- Plastic cut to make pump fan
- Tube for the water to travel to the lions head
- Wires
- Old helicopter controller to hold the batteries
- Clay for the lions head
- And old fridge tray
- A CD case lid
- Switch

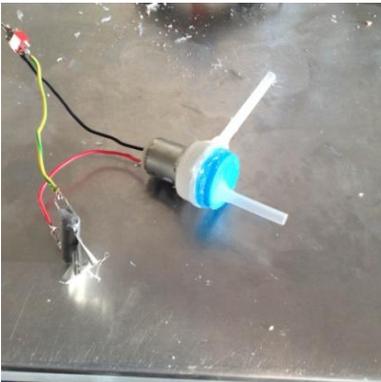
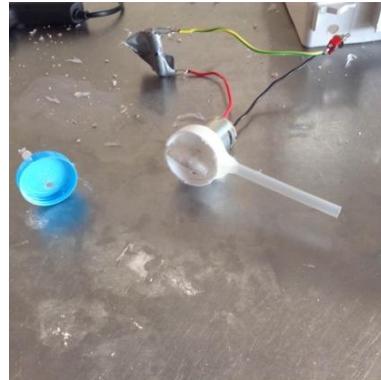


Tools to make it

- Glue gun
- Soldering iron
- Super glue
- Pliers
- Candle



Making the fan by bending the 2 bits of plastic
Putting the pump together



Making the lions head using some clay



Gluing the motor to the fridge tray

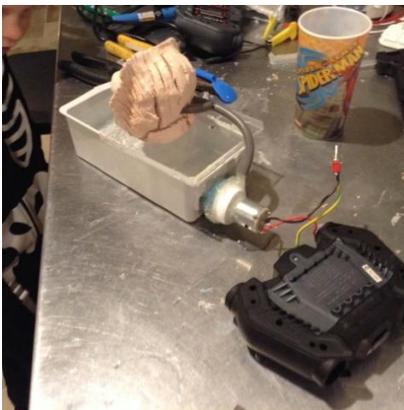


Testing the project

- The first time we turned it on it had a leak so we had to redo the pump



All connected, the battery cass is powering the motor and the motor is powering the fan and the fan is pushing the water up and around and reticulating.



When all the work was done we checked if it works it did work I was so happy.

