

# Primary Engineer LEADERS AWARD Greater Manchester

Primary Engineer® Programmes  
...the first step



IF YOU WERE AN ENGINEER – WHAT WOULD YOU DO?

## Greater Manchester, Year 3 Award Winner

### JW's Bin Scanner

Labels in diagram: Bin, scanner, SOLAR PANEL, Red Flashing LED Lights, Flashing open sign, solar Panel, Green Flashing LED Lights, Made of recycled plastic.

**Name:** Joshua Wilson  
**Gender:** Male  
**School Name:** St Paul's Primary School  
**Year Group:** Year 3  
**Which engineer inspired you?** Andy Wilson

After many talks with different groups and family a topic that kept coming up was recycling and coming up with a way to make sure we are doing it right.

The invention I have come up with is a scanner that is attached to our bins.

We can scan items, we think belong in these bins, if we are right the green light will flash and a sign will say open and a lock on the bin will be released, we can then put our items in.

If the item we are trying to put in does not belong in that bin it will flash red and remain locked.

As it will be powered using the solar panels, it also uses natural resources better, so we want to be using clean man made energies.

During this invention would help people build a better understanding of recycling, helping the environment, putting costs on, companies and help help our population grow and get to a minimum.

All recycled materials can be re-used to build other inventions.

Kind regards  
 Joshua Wilson



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