

Connect 2 more LEDs with the -'ve cathode in the blue rail on J13 & J14.

#Connect another LED and bend to make it shine on the the LDR: we will adjust it to fit the trtest tube holder



Take the Black foam sample holder base and place beneath the LDR & LED pair

Bend the LDR to fit over this base section of the black foam sample holder, there are cuts for the LDR legs

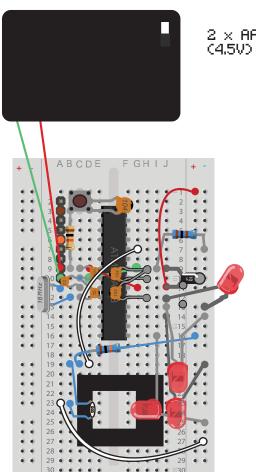
Bend the LED connected to J16 to fit over the bottom section of the black foam sample holder

Fit the foam sample holder on top of the base, LED & LDR and hold with elastic bands

You should now be able to insert a test tube snuggly into the gap between the LDR and LED

Now use the USB connector to upload the WalneyTurbiditySensor to the arduino. Use Arduino UNO as the board type and the serial port will be something like tty.SLAB_USBtoUART

#Then to go wild and launch your sensor you need to disconnect your USB connector and hook up your battery pack: insert the red wire (+'ve) into A9 and the green wire (-'ve) into A10. Once connected we can stick the pack to the underside of the breadboard



2 x AAA Battery Holder (4.5V)

> #We designed the kits to flash LED's depending on their sensor readings: 1 flash is clear, 3 flashes 'dirty' or occluded

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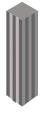
Thats it! You can now test your sensor with different samples; you may need to tweak the response values.



DIY Turbitity Water Sample Holder Top

We use small standard square testtubes to place our samples in DIY 'turbidity' sensors: essentially measuring how much LED light passes through the sample: the dirtier the water is the less light passes through. This does not really tell us about water quality but we can infer how clear water is and compare it to other samples, to start off we will use drinking water and compare with the #There's a more advanced turbidity sensor at http://hackteria.org/wiki /index.php/DIY_turbidit

v_meters



dock water.