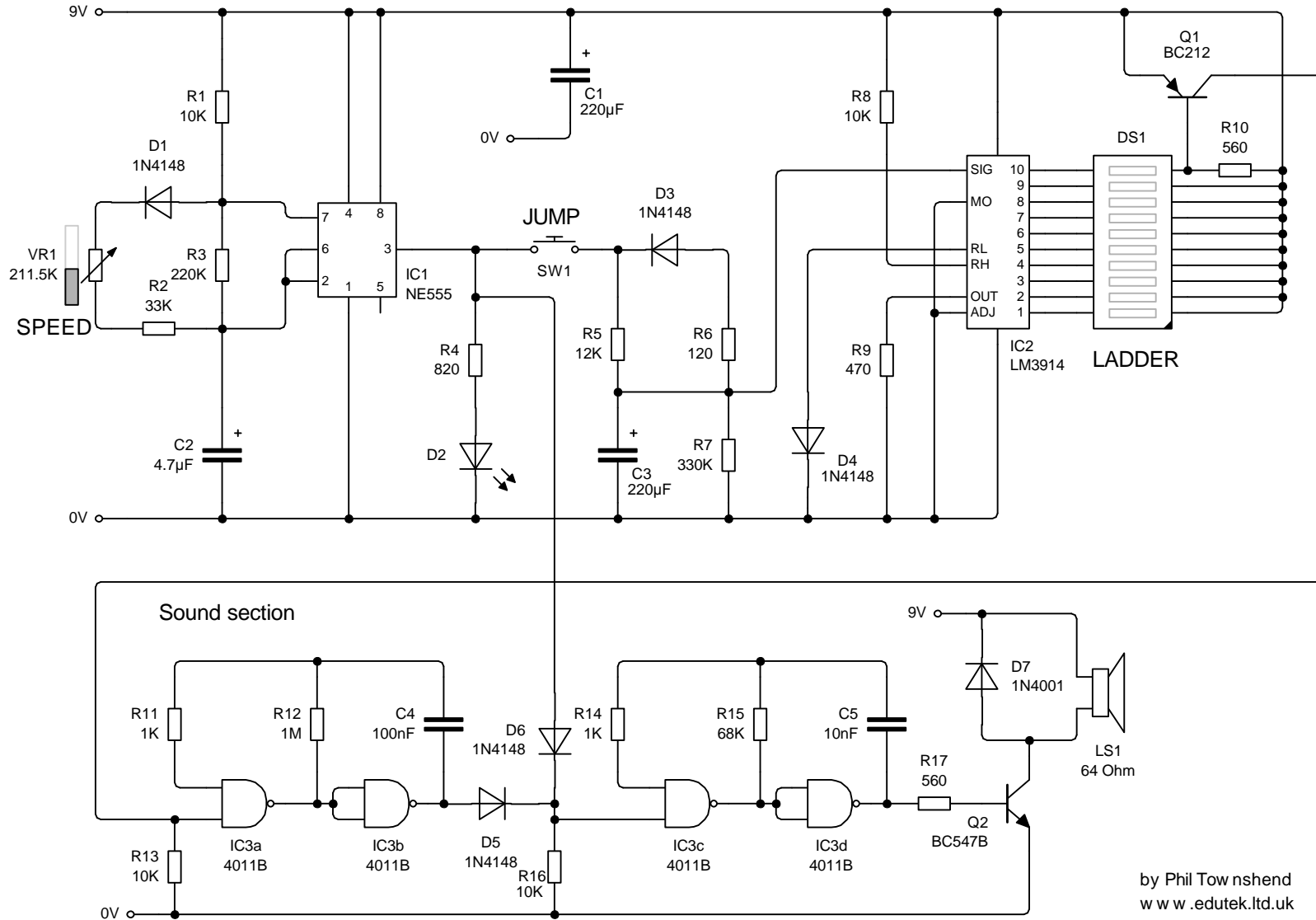


SURVIVAL GAME

Press the jump button only when the LED is lit. Otherwise you drop down the ladder.
 Basically a circuit that charges a capacitor when the button is pressed and the 555 output on, then measures the voltage using a LED bar graph display. The capacitor discharges rapidly through the 120 ohm resistor when the button is pressed and the output is low from the 555.



by Phil Tow nshend
 w w w .edutek.ltd.uk

PARTS LIST

Name	Quantity
100nF Capacitor	1
10K Resistor (1/4W)	4
10nF Capacitor	1
120 Resistor (1/4W)	1
12K Resistor (1/4W)	1
1K Resistor (1/4W)	2
1M Resistor (1/4W)	1
1N4001 Diode	1
1N4148 Diode	5
220µF Electrolytic Capacitor	2
220K Resistor (1/4W)	1
330K Resistor (1/4W)	1
33K Resistor (1/4W)	1
4.7µF Electrolytic Capacitor	1
4011B Quad 2-Input NAND ...	1
470 Resistor (1/4W)	1
470K Variable Resistor	1
560 Resistor (1/4W)	2
68K Resistor (1/4W)	1
820 Resistor (1/4W)	1
9V Voltage Rail (Ideal)	2
Bargraph Display (Green)	1
BC212 PNP Transistor	1
BC547B NPN Transistor	1
LED (Amber)	1
LM3914 (Linear) Dot/Bar Dis...	1
Loudspeaker (64 Ohm)	1
NE555 Bipolar Timer	1
Push-to-Make	1