



BINARY-TO-DECIMAL LEARNING MACHINE PARTS LIST

Amt	Part Description	Allied Part #
1	24V, 1.7A power supply	298-0108
1	12V regulator	935-3050
1	5V regulator	935-9372
8	Red LED	505-9500
	Blue LED	509-9720
	Red LED for testing	505-1348
1	1kW potentiometer	753-2260
5	0.1 mF capacitor	852-5685
	1.0 mF capacitor	852-5674
	Solid state relay	788-0168
1	Proto type board (large)	977-1951
2	Pushbutton switch	747-0790
	Toggle switch	757-4885

Other supplies: For the complete parts lists, go to <http://rbi.ims.ca/3848-532>.

Additional Parts Required: Duct Tape and Baling Wire!

WHIZ KIDS (and Colorado State University engineering students) Curtis and Dennis built a cool learning toy that tests the user's knowledge of binary numbers. A microcontroller generates a random 16-bit number that is converted to 8-bits and displayed in binary form using eight LEDs. If the user's guess (entered in decimal form) matches the number, a motor activates a shaft, releasing a gumball. If the guess is wrong, an appropriate sound for a loser is produced through a digital sound module.

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