

## Year 1 Home Electronics Kit

Part Description	Source	Part #	Unit Cost	Quantity	Total Cost
11/11/10					
<b>Electronics:</b>					
1660 Pin Solderless Breadboard	Jameco	20774	\$20.95	1	\$20.95
Photocell	Jameco	120299	\$1.59	2	\$3.18
Red LED's	Electronics Express	08L53RD	\$0.08	5	\$0.40
Yellow LED's	Electronics Express	08L53YD	\$0.07	5	\$0.35
Green LED's	Electronics Express	08L53GD	\$0.07	5	\$0.35
1N5817 Schottky Diode	Jameco	177949	\$0.10	2	\$0.20
1N4001 Diodes	Jameco	35975	\$0.05	2	\$0.10
Resistors	Electronics Express				
10,47,100,150,220,330,470,680,1K,2.2K 3.3K,4.7K,10K,22K,33K,47K,100K			\$0.03	68	\$2.04
Resistor Network DIP	Jameco	108564	\$0.55	1	\$0.55
1K,10K,25K,100K Ohm Tripot w/ Shaft	Electronics Express	18STS25K	\$0.90	8	\$7.20
10K Thermistor	Jameco	207037	\$0.39	1	\$0.39
2N2907A Transistors	Jameco	178520	\$0.05	5	\$0.25
2N2222A Transistors	Electronics Express	PN2222A	\$0.06	5	\$0.30
LM393N Comparator	Jameco	24281	\$0.22	3	\$0.66
555 Timer	Electronics Express	LM555	\$0.22	3	\$0.66
LED Flasher	Electronics Express	LM3909	\$3.50	1	\$3.50
741 Op Amp	Electronics Express	LM741	\$0.22	3	\$0.66
LM386 Audio Amplifier DIP Chip	Jameco	24125	\$0.79	1	\$0.79
PIC16F88 Microcontroller	Microchip	PIC16F88	\$2.51	1	\$2.51
78L05 Voltage Regulator	Electronics Express	7805T	\$0.35	3	\$1.05
Heavy Duty Alligator Leads	Electronics Express	F05ALS2	\$0.40	2	\$0.79
Mini SPDT Slide Switch	Electronics Express	17SLDH251	\$1.30	2	\$2.60
Momentary Switch	Electronics Express	17MOMDS660	\$2.25	2	\$4.50
8 Ohm Speaker	Jameco	135693	\$1.95	1	\$1.95
12 vdc Gearhead Motor	Electronics Express	F29GHM	\$10.95	1	\$10.95
Piezo Buzzer	Jameco	196357	\$1.75	1	\$1.75
0.001 uF Capacitor	Jameco	15192	\$0.06	3	\$0.18
0.01 uF Capacitor	Jameco	15231	\$0.07	3	\$0.21
0.047 uF Capacitor	Jameco	15255	\$0.10	2	\$0.20
0.1 uF Capacitor	Jameco	151118	\$0.12	5	\$0.60
1 uF Capacitor	Jameco	330431	\$0.06	3	\$0.18
1 uF Non-PolarCapacitor	Jameco	544956	\$0.39	2	\$0.78
10 uF Capacitor	Jameco	94212	0.10	4	\$0.40
22 uF Capacitor	Jameco	158327	0.09	2	\$0.18
47 uF Capacitor	Jameco	31114	0.06	2	\$0.12
100 uF Capacitor	Jameco	158394	0.15	2	\$0.30
1000 uF Capacitor	Jameco	330722	0.35	2	\$0.70
9 Volt Battery Snap	Jameco	216452	\$0.32	3	\$0.96
Hook-up Wire Kit	Electronics Express	F27WK22SLD25	\$6.95	1	\$6.95
<b>Tools:</b>					
Economy Wire Strippers	Electronics Express	F0602HT1042	\$5.50	1	\$5.50
Mini Long Nose Pliers	Electronics Express	F060215	\$2.75	1	\$2.75
Economy DMM	Electronics Express	F01DMMAS830	\$10.95	1	\$10.95
Resistor Color Guide	Electronics Express	13RCCG	\$0.26	1	\$0.26
Chip Extractor	Electronics Express	060400	\$1.25	1	<u>\$1.25</u>
<b>Total:</b>					<b>\$101.10</b>

### Source List:

Vendor Name	Website	Telephone	Notes:
Electronics Express	elexp.com	800-972-2225	\$20.00 Minimum order
Jameco	jameco.com	800-831-4242	\$20.00 Minimum order over phone