Lab Kit BOM (Bill of Materials)

Quantity in each kit	Part Description	Link to additional information
1	Raspberry Pi 3 Model B & 16GB MicroSD card preloaded with NOOBS	http://www.newark.com/raspberry-pi/rpi3-modb-16gb-noobs/sbc-raspberry-pi3-mod-b-16gb-sd/dp/77Y6523?ost=77Y6523&iscrfnonsku=false&ddkey=http%3Aen-US%2FElement14_US%2F
1	USB-to-TTL Serial Cable	http://www.newark.com/adafruit-industries/954/usb-to-ttl-serial-cable-raspberry/dp/44W3509?categoryId=800000004003&selectedCategoryId=
1	Solderless breadboad 830 tie points	http://www.meerkatsystems.net/html/10000023.html
1	Wire stripper GS 40, GB Electrical Inc.	https://www.hardwareworld.com/p9w7c94/Wire-Stripper-Cutter
1	Stanley 84-096 5-Inch Needle Nose Plier	https://www.hardwareworld.com/p7oai4t/Needle-Nose-Pliers-5
1	Pencil Box	http://shopadvantus.com/shop/pc/Pencil-Box-Clear-115p1217.htm
1	USB A Male to Micro B Male USB 2.0 cable	http://www.digikey.com/product-detail/en/qualtek/3025010-03/Q853-ND/4341883
1	WIRE JUMPER MALE-FEM 15CM 10PCS	http://www.digikey.com/product-detail/en/MIKROE-512/1471-1231-ND/4495595
3	SN74HCT00N NAND Gate IC 4 Channel 14-DIP	https://www.digikey.com/product-detail/en/texas-instruments/SN74HCT00N/296-1603-5-ND/277249
1	SN74HCT02N NOR Gate IC 4 Channel 14-DIP	https://www.digikey.com/product-detail/en/texas-instruments/SN74HCT02N/296-8380-5-ND/376866
1	CD74HC163E Synchronous 4-Bit Binary Counter 16-DIP	https://www.digikey.com/product-detail/en/texas-instruments/CD74HC163E/296-33033-5-ND/1506705
1	SN74HC138N 3-to-8 Decoder/Demultiplexer 16-DIP	http://www.digikey.com/product-detail/en/SN74HC138N/296-1575-5-ND/277221
1	SN74LS112AN Dual J-K Neg-Edge-Triggered Flip Flop 16-DIP	http://www.digikey.com/product-detail/en/SN74LS112AN/296-3637-5-ND/377781
1	NA555P Timer/Oscillator 8-DIP	http://www.digikey.com/product-detail/en/NA555P/296-21753-5-ND/1571935
1	Resistor 10 ohms, 2 watts, axial	http://www.digikey.com/product-detail/en/FMP200JR-52-10R/10ZTR-ND/2058647
10	Resistor 10K Ohm, 1/4 watt, 5%, axial	http://www.digikey.com/product-detail/en/yageo/CFR-25JB-52-10K/10KQBK-ND/338
10	Resistor 470 Ohm, 1/4 watt, 5%, axial	http://www.digikey.com/product-detail/en/yageo/CFR-25JB-52-470R/470QBK-ND/2211
1	Capacitor 100uf 20% 10V Radial	https://www.digikey.com/product-detail/en/panasonic-electronic-components/ECA-1AHG101/P5517-ND/245116
1	Capacitor 1000uf 20% 10V Radial	https://www.digikey.com/product-detail/en/panasonic-electronic-components/ECA-1AM102/P5127-ND/244986
1	Ethernet Cable, Cat5e, Cat5e, RJ45 Plug, RJ45 Plug, 3.3 ft, 1 m, Black	http://www.newark.com/pro-signal/ps11074/cable-assembly-ethernet-cat5e/dp/26R2951?MFR=sy-me-pd-mi-acce
1	RGB (red, green, blue) Multicolor LED	http://www.digikey.com/product-detail/en/kingbright/WP154A4SUREQBFZGC/754-1615-ND/3084119
3	LED 5MM 5V RED DIFFUSED	http://search.digikey.com/scripts/DkSearch/dksus.dll?Detail&name=67-1106-ND&itemSeq=89132061&uq=634163007409118447
5	LED 5MM 5V GREEN DIFFUSED	http://search.digikey.com/scripts/DkSearch/dksus.dll?Detail&name=67-1100-ND&itemSeq=89132107&uq=634163007409118447
5	Tactile Switch SPST-NO Top Actuated	http://www.digikey.com/scripts/DkSearch/dksus.dll?Detail&name=SW400-ND&itemSeq=89132036&uq=634163007409118447
1	16GB USB 2.0 flash drive	https://www.amazon.com/SanDisk-Cruzer-Frustration-Free-Packaging-SDCZ50-016G-AFFP/dp/B007KFAFZ8/ref=sr_1_16?s=pc&ie=UTF8&qid=1512001318&sr=1-16&keywords=usb+flash