All of these are in varying quantities and students can wire whatever they wish with the first project

220 ohm resistors (250 pack)

<https://www.amazon.com/dp/B01LWXKN3X/ref=biss_dp_t_asn>

50 Red LEDs

<https://www.amazon.com/dp/B006G6QXS0/_encoding=UTF8?coliid=IVGDBEUFWP1P&colid=1UGI50UWLV0Q1>

50 Yellow LEDs

<https://www.amazon.com/Bluecell-PCS-Yellow-LED-Electronics/dp/B006FQPPLC/ref=pd_sim_60_4?_encoding=UTF8&pd_rd_i=B006FQPPLC&pd_rd_r=CT6W9YXS7J4RRW65GX8E&pd_rd_w=UWWIk&pd_rd_wg=iZfQL&psc=1&refRID=CT6W9YXS7J4RRW65GX8E>

50 Green LEDs

<https://www.amazon.com/Bluecell-Green-Electronics-Bulb-light/dp/B006G6TKQW/ref=pd_sim_60_1?_encoding=UTF8&pd_rd_i=B006G6TKQW&pd_rd_r=EEDRE2TDTWX8MG9FTSG6&pd_rd_w=E2Wif&pd_rd_wg=0LFrT&psc=1&refRID=EEDRE2TDTWX8MG9FTSG6>

Pushbutton switches

<https://www.amazon.com/Ocr-10Value-Tactile-Momentary-Assortment/dp/B01MRP025V/ref=sr_1_10?s=industrial&ie=UTF8&qid=1503802872&sr=1-10&keywords=push+button+switch>

10k Ohm resistor

<https://www.amazon.com/E-Projects-100EP51210K0-10k-Resistors-Pack/dp/B0185FIOTA/ref=sr_1_1?ie=UTF8&qid=1503803528&sr=8-1&keywords=10k+resistor>

Arduino Uno (we need one per student)

<http://www.ebay.com/itm/Arduino-UNO-R3-ATMEGA328-Compatible-/122534822590?epid=6002604835&hash=item1c87a502be:g:HzEAAOSw5adZonj7>

Cables to wire things together – same as Matt’s list

Ballpark cost = $15

LED PROJECT

RGB PCB

Easy EDA- $7.88 per board x student

100 nF 0805 Capacitors- 68 x student

<https://www.digikey.com/product-detail/en/kemet/C0805C104K5RACTU/399-1170-1-ND/411445>

WS2812 LED’s – 68 x student

<https://www.aliexpress.com/item/10-1000pcs-WS2812B-4pins-5050-SMD-Black-White-version-WS2812-Individually-Addressable-Digital-RGB-LED-Chip/32453497583.html?spm=2114.13010608.0.82.Zi6rnH>

Arduino uno – use above link – 1 x student

3 pin male header – 1 x student

<https://www.digikey.com/product-detail/en/wurth-electronics-inc/61300311121/732-5316-ND/4846825>

Power bank to power Arduino and glasses – 1 x student

<http://www.ebay.com/itm/5600mAh-Portable-External-Battery-USB-Power-Bank-Charger-for-Cell-Phone-/261546424829?_trksid=p2349526.m2548.l4275>

Cables to wire Arduino and glasses – same as Matt’s list

USB cable from Arduino to powerbank- 1 x student

https://www.walmart.com/ip/Link-Depot-USB-A-to-B-Printer-Cable-6-10-15/15819240

Ballpark = $23