

## Updated Bill Of Materials

Prepared by Group Z11

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### Explanation of Extended Cost & True Cost:

We have two final costs listed: Extended Cost & True Cost.

Extended cost is the unit cost of the materials multiplied by the amount we need for this project. However, some items listed are sold in higher quantities, meaning the actual price we would pay would be higher than the extended cost. We have listed the "True cost" as well, to make sure you understand how much things will actually cost. True cost includes the total cost of the item, and doesn't take into account how much of the item we will actually use. Both the extended and true costs after taxes are below the \$100 budget limit.

ID #	Name	Description	Bulk Item	Unit	Quantity	Unit Cost	Extended Cost	True Cost	Link (Store)
1	Arduino Leonardo	Main logic board	FALSE	Unit	1	\$15.00	\$15.00	\$15.00	<a href="https://edu-makerlab.odoo.com/shop/product/arduino-5#attr=7">https://edu-makerlab.odoo.com/shop/product/arduino-5#attr=7</a>
2	LED	RGB light to display mode info	FALSE	Unit	1	\$2.00	\$2.00	\$2.00	<a href="https://edu-makerlab.odoo.com/shop/product/rgb-led-33?category=10#attr=">https://edu-makerlab.odoo.com/shop/product/rgb-led-33?category=10#attr=</a>
3	Arcade Button	Arcade gamepad button	TRUE	Unit	20	\$1.13	\$22.60	\$27.12	<a href="https://www.amazon.ca/-/fr/boutons-rechange-pour-manette-darcade/dp/B09KNJ1YMV/ref=sr_1_3?__mk_fr_CA=%C3%85M%C3%85%C5%BD%C3%95%C3%91&amp;crd=KENWYK0EI6H5&amp;keywords=30+mm+buttons+joystick&amp;qid=1684801336&amp;srefix=30+mm+buttons+joystick%2Caps%2C77&amp;sr=8-3">https://www.amazon.ca/-/fr/boutons-rechange-pour-manette-darcade/dp/B09KNJ1YMV/ref=sr_1_3?__mk_fr_CA=%C3%85M%C3%85%C5%BD%C3%95%C3%91&amp;crd=KENWYK0EI6H5&amp;keywords=30+mm+buttons+joystick&amp;qid=1684801336&amp;srefix=30+mm+buttons+joystick%2Caps%2C77&amp;sr=8-3</a>
4	Joystick	analog joystick potentiometer	TRUE	Unit	3	\$2.40	\$7.20	\$11.99	<a href="https://www.amazon.ca/dp/B07VXPFB9Q?psc=1&amp;ref=ppx_yo2ov_dt_b_product_details">https://www.amazon.ca/dp/B07VXPFB9Q?psc=1&amp;ref=ppx_yo2ov_dt_b_product_details</a>
5	Single Coil Wires	electrical wire to connect components	TRUE	10	60	\$0.13	\$7.60	\$8.23	<a href="https://www.amazon.ca/dp/B07YQ1XBC1/ref=sspa_dk_detail_1?psc=1&amp;pd_rd_i=B07YQ1XBC1&amp;pd_rd_w=oH4tl&amp;content-id=amzn1.sym.d8c43617-c625-45bd-a63f-ad8715c2c055&amp;pf_rd_p=d8c43617-c625-45bd-a63f-ad8715c2c055&amp;pf_rd_r=1184SYV2B575813WFSF0&amp;pd_rd_wg=uvoOq&amp;pd_rd_r=cd9042b6-ff3f-4246-a4f6-ac7cf9d1aa2b&amp;s=hi&amp;sp_csd=d2lkZ2V0TmFtZT1zcF9kZXRhaWw&amp;smid=A2149H8PNAXBP8">https://www.amazon.ca/dp/B07YQ1XBC1/ref=sspa_dk_detail_1?psc=1&amp;pd_rd_i=B07YQ1XBC1&amp;pd_rd_w=oH4tl&amp;content-id=amzn1.sym.d8c43617-c625-45bd-a63f-ad8715c2c055&amp;pf_rd_p=d8c43617-c625-45bd-a63f-ad8715c2c055&amp;pf_rd_r=1184SYV2B575813WFSF0&amp;pd_rd_wg=uvoOq&amp;pd_rd_r=cd9042b6-ff3f-4246-a4f6-ac7cf9d1aa2b&amp;s=hi&amp;sp_csd=d2lkZ2V0TmFtZT1zcF9kZXRhaWw&amp;smid=A2149H8PNAXBP8</a>
6	Joystick Cover	3d printed cover for accessibility	FALSE	g	30	\$0.15	\$4.50	\$4.50	Maker Lab
7	SN74HC166N	parallel-in/serial-out shift register to extend inputs	FALSE	Unit	3	\$2.05	\$6.16	\$6.16	<a href="https://www.digikey.ca/en/products/detail/texas-instruments/SN74HC166N/376961">https://www.digikey.ca/en/products/detail/texas-instruments/SN74HC166N/376961</a>
8	USB Male Micro B To Male A	Arduino to System Wire	FALSE	Unit	1	\$2.25	\$2.25	\$2.25	<a href="https://www.digikey.ca/en/products/detail/cvilux-usa/DH-20M50055/13175849">https://www.digikey.ca/en/products/detail/cvilux-usa/DH-20M50055/13175849</a>
9	PCB	PCB to	FALSE	Unit	1	\$5.00	\$5.00	\$5.00	Maker Lab

		connect electronics to							
10	MDF Wood	wood panels to be laser cut for box	FALSE	Unit	2	\$2.50	\$5.00	\$5.00	Maker Lab
11	Arduino XInput Library/Firmware	To let arduino be used as controller	FALSE	Unit	1	\$0.00	\$0.00	\$0.00	<a href="https://github.com/dmadison/ArduinoXInput">https://github.com/dmadison/ArduinoXInput</a>
12	Resistors 10K	resistors for buttons	FALSE	Unit	20	\$0.01	\$0.20	\$0.20	<a href="https://edu-makerlab.odoo.com/shop/product/resistor-6?category=13#attr=23">https://edu-makerlab.odoo.com/shop/product/resistor-6?category=13#attr=23</a>
13	Resistors 220	resistors for rgb led	FALSE	Unit	3	\$0.01	\$0.03	\$0.03	<a href="https://edu-makerlab.odoo.com/shop/product/resistor-6?category=13#attr=11">https://edu-makerlab.odoo.com/shop/product/resistor-6?category=13#attr=11</a>
<b>Total product cost (without taxes or shipping)</b>							\$77.54	\$87.48	
<b>Total product cost (including taxes and shipping)</b>							\$87.62	\$98.85	(Free Shipping)