

CATEGORY	DESCRIPTION	QTY	ITEM (Proposed)	ITEM (Used In Prototype)	UNIT PRICE	PRICE (inc. TAX, SHIPPING)	VENDOR
Lamp Structure	Columns	1	3/4 in. x 36 in. square hardwood dowel, Cut to size	3/4 in. x 36 in. square hardwood dowel	\$5.99	\$6.52	Hardware store
	Crossbar	1	3/4 in. x 72 in. hardwood dowel, Cut to size	3/4 in. x 72 in. hardwood dowel	\$7.99	\$8.70	Hardware store
	Lamp Base, Light Engine Cover	1	1 1/4 in. x 2 ft. x 2 ft. plywood, Cut to size	1/4 in. x 4 ft. x 8 ft. plywood	\$27.92	\$30.40	Home depot
	Bowl	1	Clear Plastic Fluted Serving Bowls, 8 in.	Clear Plastic Fluted Serving Bowls, 8 in.	\$1.25	\$1.36	DollarTree
	Bowl Suspension	1	Fishing Line, Cut to size	anezus Fishing Line Nylon String Cord Clear Fluorocarbon Strong Monofilament Fishing Wire	\$6.59	\$7.18	Amazon
	Bowl Suspension	4	Extension Spring with Loop Ends, 29.2 mm Long, 3.5 mm OD, 0.7 mm Wire Diameter	Extension Spring with Hook Ends, 29.2 mm Long, 3.5 mm OD	\$1.99	\$8.67	Hardware store
	Bowl Suspension	1	Fishing Swivels, 4pcs	Size 1+1 (31lb) fishing swivels, 25 pcs	\$9.99	\$10.88	Amazon
	Bowl Content	1	Water beads	EBOOT 10000 Pieces Gel Soil Water Crystal Beads Gel Jelly Water Gems Vase Filler (Clear)	\$6.99	\$7.61	Amazon
Lamp Shade	Outer Shade	1	Rattan Cane Webbing, Cut to size	Rattan Cane Webbing roll (5 feet)	\$64.99	\$70.77	Amazon
	Inner Shade	1	Black Ink Soft Unryu Paper - Chiri, 23" x 35" , Cut to size	Black Ink Soft Unryu Paper - Chiri, 23" x 35"	\$5.39	\$5.87	Blick
Light Engine	Light Engine Middle Plate	1	1/4 in. x 4 ft. x 8 ft. plywood	1/4 in. x 4 ft. x 8 ft. plywood			(scrap materials)
	Light Engine Support Dowel	4	0.45" Round Wood Dowels	1/4" Hex Bolt	\$0.00	\$0.00	School Supply
	Light Engine Support Dowel, small	4	0.2" Round Dowels				(omitted)
	Light Engine Bottom Plate	1	1mm Acrylic Sheet, Cut to size				(omitted)
	Assembly Hardware	6	4-40 5/8" Male Threaded Standoff	5/8" Female Threaded Standoff	\$0.00	\$0.00	School Supply
	Assembly Hardware	9	4-40 Locknut	4-40 Locknut + 4-40 Head Screw	\$0.00	\$0.00	School Supply
	Assembly Hardware	3	4-40 Thin Locknut				(omitted)
	LED Base Board	1	1.6mm Aluminum Sheet, Cut to size	Upcycled 1.6mm 4" x 5" PCB Board	\$1.66	\$1.81	Bantam Tools
	PCB	1	1.6mm Double-sided PCB, Milled according to design	1.6mm 4" x 5" Double-sided PCB	\$1.66	\$1.80	Bantam Tools
	LED Heat Sink	4	LED heat sink module	SV-LED-314E Round Heat Sink LED Module	\$2.97	\$12.94	Digikey
	LED Module	4	Vollong 5W White High Power LED	Vollong 5W White High Power LED	\$6.95	\$30.27	Super bright LEDs
	PCB Parts	1	Multilayer Ceramic Capacitors MLCC - SMD/SMT 50V 0.1uF X7R 0805 10%	Multilayer Ceramic Capacitors MLCC - SMD/SMT 50V 0.1 uF X7R 0805 10%	\$0.00	\$0.00	School Supply
	PCB Parts	1	Resistor 10K OHM 1% 1/4W 0805	Resistor 10K OHM 1% 1/4W 0805	\$0.00	\$0.00	School Supply
	PCB Parts	1	Multilayer Ceramic Capacitors MLCC - SMD/SMT 0805 25VDC 10uF 10%	Multilayer Ceramic Capacitors MLCC - SMD/SMT 0805 25VDC 10uF 10%	\$0.00	\$0.00	School Supply
	PCB Parts	4	Resistor SMD 220 OHM 0.1% 1/4W 0805	Resistor SMD 220 OHM 0.1% 1/4W 0805	\$0.00	\$0.00	School Supply
	PCB Parts	4	Wirewound Resistors - Through Hole 5W 20 Ohm 5%	Wirewound Resistors - Through Hole 5W 20 Ohm 5%	\$0.00	\$0.00	School Supply
	PCB Parts	4	N-Channel MOSFET, 32 A, 60 V QFET, 3-Pin TO-220 ON Semiconductor	FQP30N06L N-Channel MOSFET, 32 A, 60 V QFET, 3-Pin TO-220 ON Semiconductor	\$1.97	\$8.58	Digikey
	PCB Parts	1	ATTINY84	ATTINY84	\$2.73	\$2.97	Digikey
	PCB Parts	1	STEP-DOWN-DC-DC-CONVERTER	BULVACK 10 Pack LM2596 DC-DC Buck Converter Step Down Module Power Supply DIP Output 1.25V-30V 3A	\$1.60	\$1.74	Amazon
	Wire	8	22 AWG Electrical Wire, Cut to size	22 AWG Electrical Wire	\$0.00	\$0.00	School Supply
Power	Wire	1	12 AWG Electrical Wire 2 Conductor, Cut to size	12 AWG Electrical Wire 2 Conductor	\$0.00	\$0.00	School Supply
	Power Supply	1	12VDC Power Supply	DC 12V 5A Power Supply Adapter Converter Transformer AC 100-240V input with 5.5x2.5mm DC Output Jack	\$12.59	\$13.71	Amazon
	Power Connector	1	Barrel-Style DC Connector Push-In Receptacles with Solder Connection				(omitted)
					SUM	\$218.09	