



PLTW Engineering/High School Engineering Program



Course	Short Item Description	Unit	Fund Cat	Freq	Qty Recmnd 20 Stds	Enter Qty to Order	Total Price	Price Type	Price	Supplier	Supplier Item Number/Description
AE	Porta- Pad II Launch Pad	Each	E	1x	1	0	\$ -	SG	\$21.90	Fisher Science	S41863
AE	Estes C6-5 Model Rocket Engines Classroom Bulk Pack (24 ea)	Pkg/24	C	CS	1	0	\$ -	SG	\$46.02	Fisher Science	NC0518275
AE	Estes Alpha III E2X Model Rocket Launch Set	Each	E	1x	1	0	\$ -	SG	\$21.84	Fisher Science	NC0518277
AE	Estes Model Rocket BT-50 Body Tube (3 pack)	Pkg/3	E	CS	7	0	\$ -	SG	\$5.50	Fisher Science	NC0518278
AE	Estes Model Rocket NC-50 Nose Cone (5 pack)	Pkg/5	E	CS	4	0	\$ -	SG	\$4.74	Fisher Science	NC0518279
AE	Estes Model Rocket Regular Motor Mount Kit	Pkg/2	E	CS	10	0	\$ -	SG	\$5.22	Fisher Science	NC0518280
AE	Estes Model Rocket 12 Inch Parachute	Each	E	CS	20	0	\$ -	SG	\$3.79	Fisher Science	NC0518281
AE	Estes Model Rocket Shock Cords and Mount Pack	Each	E	CS	10	0	\$ -	SG	\$4.74	Fisher Science	NC0518284
AE	Launch Lugs Estes high strength laminated lugs with a mylar plastic core for durability and a paper outer layer for durability. 1/8 in x 2-3/8 in Launch Lugs 20 per pk	Pkg/20	C	CS	1	0	\$ -	SG	\$4.74	Fisher Science	NC0519332
AE	Estes Model Rocket Tube Marking Guide	Each	E	1x	1	0	\$ -	SG	\$7.59	Fisher Science	NC0519335
AE	APC Slow Flyer Propeller, 8x3.8 SF	Each	E	1x	5	0	\$ -	SG	\$2.52	Fisher Science	NC0520078
AE	APC Slow Flyer Propeller, 8x6 SF	Each	E	1x	5	0	\$ -	SG	\$2.52	Fisher Science	NC0520079
AE	Catapult construction kit (to make 1 catapult)	Each	C	CS	2	0	\$ -	SG	\$16.39	Fisher Science	S12889
AE	Tech Glider Catapult Kit	Each	C	CS	2	0	\$ -	SG	\$16.39	Fisher Science	S12889
AE	Basswood Strips (3/16" x 3/8" x 24")	Pkg/20	C	CS	2	0	\$ -	SG	\$10.73	Fisher Science	S12888
AE	Balsa Sheets (3/32" x 3" x 36")	Pkg/20	C	CS	1	0	\$ -	SG	\$26.59	Fisher Science	S12886



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AE	Estes Model Rocket Recovery Wadding	Each	E	CS	2	0	\$ -	SG	\$5.22	Fisher Science	S41853
AE	Estes Model Rocket Igniters (6 ea)	Pkg/6	E	CS	1	0	\$ -	SG	\$5.22	Fisher Science	S41857
AE	Estes Model Rocket AltiTrak Altitude Tracker	Each	E	1x	2	0	\$ -	SG	\$14.24	Fisher Science	S41861
AE	Estes B6-4 Model Rocket Engines Classroom Bulk Pack (24 ea)	Pkg/24	C	CS	1	0	\$ -	SG	\$39.52	Fisher Science	S41867A
AE	Estes A8-3 Model Rocket Motors Bulk Pack (24 ea)	Pkg/24	E	CS	1	0	\$ -	SG	\$47.02	Fisher Science	S41871A
AE	Rod/Base Assemblies, Base Size, in.: 6 x 9, Rod Length, in.: 24	Each		1	1	0	\$ -	SG	\$17.79	Fisher Science	S47807
AE/CEA	Balsa Sheets (1/8" x 3" x 36")	Pkg/20	C	CS	1	0	\$ -	SG	\$27.73	Fisher Science	S12887
BE	Hotplate; Isotemp; Ceramic Top; 4 x 4 in. heating surface; Temp control to to 540C; 120V 60 Hz Fisher Scientific #11-100-16H	Each	E	1x	3	0	\$ -	SG	\$214.50	Fisher Science	11-100-16H
BE	Economical Microcentrifuge	Each	E	1x	1	0	\$ -	SG	\$157.00	Fisher Science	NC0574377
BE	1000mL Beaker. Corning 1000 Manufactured with spout & uniform wall thickness for maximum durability. Larger sizes (over 250ml) have double graduated measuring scale. All have large marking spot.	Pkg/6	E	1x	1	0	\$ -	SG	\$27.19	Fisher Science	S00012
BE	250 ml Erlenmeyer Flask, graduation range 50-225ml, 25ml intervals, rubber stopper #6	Pkg/12	E	1x	1	0	\$ -	SG	\$19.05	Fisher Science	S00144
BE	1 liter Erlenmeyer Flask, graduation range 250-1,000 ml, 50ml intervals, rubber stopper #9	Pkg/6	E	1x	1	0	\$ -	SG	\$25.86	Fisher Science	S00146
BE	Test Tubes Pyrex Borosilicate 20mm x 150mm, Pack of 72 general-purpose test tubes with medium weight walls and polished rims (Corning No. 9800), Stopper capacity: 32mL, size 1	Pkg/72	E	2-3y	1	0	\$ -	SG	\$27.08	Fisher Science	S00184
BE	Pipette, Transfer; Samaco; Nonsterile; Graduated; Polyethylene; Low-affinity surface; Type: Standard Bulb; Graduations: 0.25 to 1mL; Capacity: 1:0 mL 5 1/2 inch (14.0cm) long; Bulb draw: 2.2mL Drops: 25ml	Box/500	C	CS	1	0	\$ -	SG	\$14.99	Fisher Science	S304674



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BE	Stopper, Rubber, Assortment; Supplied in solid, one-hole and two-hole forms Size numbers molded into top; in Sizes No. 00-8; 2lb package Fisher Scientific #S34999	2lb/Pkg	E	1x	1	0	\$ -	SG	\$21.04	Fisher Science	S34999
BE	Tubing Assortment, Flint glass; 5 lb package includes 1 lb. Each of the 5,6,7,8, and 9mm sizes, 4' lengths Fisher Scientific #S37612	Pkg/5	E	1x	1	0	\$ -	SG	\$56.80	Fisher Science	S37612
BE	Ring Stand, Support Stand with 2 Rings; Cast Iron, Rectangular base, Nickel-plated steel rod; Case Iron rings with nickel-plated steel thumb screws Fisher Scientific #S47815	Each	E	1x	3	0	\$ -	SG	\$25.10	Fisher Science	S47815
BE	Mini Incubator, temperature range - ambient to 60 degree C temperature uniformity - +/- 5 degree C, capacity eighty 6.5 cm plates. Dimensions: exterior - 28 x 29 x 34 cm (W x D x H), chamber - 23 x 20 x 20 cm (W x D x H)	Each	E	1x	1	0	\$ -	SG	\$368.51	Fisher Science	S521081
BE	Disposable serological pipette, polystyrene, negative and reverse graduation, 5ml capacity	Case/500	C	CS	1	0	\$ -	SG	\$58.94	Fisher Science	S68228C
BE	Disposable serological pipette, polystyrene, negative and reverse graduations, 10ml capacity	Case/200	C	CS	1	0	\$ -	SG	\$32.00	Fisher Science	S68228D
BE	1 liter Erlenmeyer Flask, graduation range 250-1,000 ml, 50ml intervals, rubber stopper #9	Pkg/6	E	1x	1	0	\$ -	SG	\$25.86	Fisher Science	S00146
BE	Pipette, Transfer; Samaco; Nonsterile; Graduated; Polyethylene; Low-affinity surface; Type: Standard Bulb; Graduations: 0.25 to 1mL; Capacity: 1:0 mL 5 1/2 inch (14.0cm) long; Bulb draw: 2.2mL Drops: 25ml	Box/500	C	CS	1	0	\$ -	SG	\$13.94	Fisher Science	S01759
BE	Pipet tips, BR40. Fit 100 to 1000 microliter micropipetter. 500/bag. NOTE: Required if completing BioRad Cloning and Sequencing Explorer Series for Optional Problem 6 in BI	Pkg/500	E	2-3y	1	0	\$ -	SG	\$24.25	Fisher Science	S06825
BE	Dual Magnifier, Two lenses for varying magnification, view specimens two different ways. With a two-in-one durable plastic magnifier: Under 3X with 1 5/8" diameter lens, or 6X with 5/8" diameter lens. Overall size: 4 1/2" L x 2" W	Each	E	1x	6	0	\$ -	SG	\$0.80	Fisher Science	S19230C
BE	a-D(+) Lactose Monohydrate (Power/Certified ACS), Fisher Chemical > Amber Glass; 500g, send MSDS sheets with order	500g	C	CS	1	0	\$ -	SG	\$11.93	Fisher Science	S25375A
BE	Pipette, volumetric transfer 4 ml cap. 500/pk	Box/500	C	CS	1	0	\$ -	SG	\$12.46	Fisher Science	S304672



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BE	Stopper, Rubber, Assortment; Supplied in solid, one-hole and two-hole forms Size numbers molded into top; in Sizes No. 00-8; 2lb package	2lb/Pkg	E	1x	1	0	\$ -	SG	\$21.04	Fisher Science	S34999
BE	waterbath, analog, maintains temperatures from 5 C to 100 C, comes with lid. NOTE: If you are completing advanced work in Medical Interventions or optional Problem 6 in BI, consider purchasing the shaking waterbath listed in the Optional section INSTEAD of this item. The shaking water bath is suggested for optimal completion of the protein purification laboratory in MI and of the molecular biology projects in BI.	Each	E	1x	1	0	\$ -	SG	\$371.94	Fisher Science	S37220
BE	Ohaus Triple Balance Beam Scale, 610g capacity, 0.1g sensitivity	Each	E	1x	1	0	\$ -	SG	\$85.83	Fisher Science	S40020
BE	Ring Stand, Support Stand with 2 Rings; Cast Iron, Rectangular base, Nickel-plated steel rod; Case Iron rings with nickel-plated steel thumb screws	Each	E	1x	3	0	\$ -	SG	\$18.59	Fisher Science	S47815
BE	Test Tube Rack, plastic, holds 12 25mm diameter tubes	Each	E	1x	5	0	\$ -	SG	\$4.30	Fisher Science	S47890
BE	Tubing, Plastic; Fisherbrand; Vinyl; Clear; Smooth and flexible; Nontoxic; Chemical-resistant; Colorless; Autoclavable; Temp. range: -26 to +73 C; 0.18 in. (4.5mm) Bore; 1.6mm Thick; 50 ft. Length: 1/Pk	Roll	E	2-3y	1	0	\$ -	SG	\$7.21	Fisher Science	S50457-1
BE	Hotplate; Isotemp; Ceramic Top; 4 x 4 in. heating surface; Temp control to to 540C; 120V 60 Hz	Each	E	1x	3	0	\$ -	SG	\$160.43	Fisher Science	S50462CH
BE	Pure Latex General Purpose Tubing; Amber Tubing 3/16 x 1/16 Fisher Scientific #S50616	Roll	E	2-3y	1	0	\$ -	SG	\$7.96	Fisher Science	S50616A
BE	Beaker, Pyrex; Capacity: 500mL/16 oz, 6/PK	Pkg/6	E	1x	1	0	\$ -	SG	\$40.07	Fisher Science	S63247
BE	1000mL Beaker. Corning 1000 Manufactured with spout & uniform wall thickness for maximum durability. Larger sizes (over 250ml) have double graduated measuring scale. All have large marking spot.	Pkg/6	E	1x	1	0	\$ -	SG	\$40.07	Fisher Science	S63247



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BE	250 ml Erlenmeyer Flask, graduation range 50-225ml, 25ml intervals, rubber stopper #6	Pkg/12	E	1x	1	0	\$ -	SG	\$33.40	Fisher Science	S63271
BE	1 liter Erlenmeyer Flask, Pyrex 6/pk	Pkg/6	E	1x	1	0	\$ -	SG	\$33.89	Fisher Science	S63274
BE	Test Tubes Pyrex Borosilicate 20mm x 150mm, Pack of 72 general-purpose test tubes with medium weight walls and polished rims (Corning No. 9800), Stopper capacity: 32mL, size 1	Pkg/72	E	1x	1	0	\$ -	SG	\$46.99	Fisher Science	S63291
BE	Beaker, Pyrex; Capacity: 500mL/16 oz.; Graduated in mL and ounces	Pkg/6	E	1x	1	0	\$ -	SG	\$32.62	Fisher Science	S63339
BE	Bioremediation by oil eating bacteria, enough for 10 groups <b>NOTE: Perishable. Open all lab kits when they arrive.</b>	Kit	C	CS	1	0	\$ -	SG	\$75.05	Fisher Science	S68637
BE	Classroom Micropipetter - 0.5 - 10µl	Each	E	1x	5	0	\$ -	SG	\$94.05	Fisher Science	S902432B
BE	Classroom micropipet 20-200 ul	Each	E	1x	5	0	\$ -	SG	\$94.05	Fisher Science	S902432F
BE	Classroom micropipet 100-1000 ul	Each	E	1x	5	0	\$ -	SG	\$94.05	Fisher Science	S902432H
BE	Microscope - Monocular 4X, 10X, 40X 100X (oil) objectives Rechargeable LED base	Each	E	1x	10	0	\$ -	SG	\$269.15	Fisher Science	S902984
BE	Test Tube Rack, plastic rack holds six tubes	Each	E	1x	5	0	\$ -	SG	\$5.65	Fisher Science	S95921
BE	Ohaus Triple Balance Beam Scale with weight set, 2610g capacity with weight set, 0.1g sensitivity	Each	E	1x	1	0	\$ -	SG	\$109.91	Fisher Science	S97281
BE - OPT	Microscope Slides (25 x 75mm) Package of 72	Pkg/72	E	CS	1	0	\$ -	SG	\$3.38	Fisher Science	S95933A
BE/CEA	Triple Balance Beam Scale with weight set, 2610g capacity with weight set, 0.1g sensitivity	Each	E	1x	1	0	\$ -	SG	\$78.14	Fisher Science	S97280
CCLI	Soldering Iron Holder	Each	E	1x	10	0	\$ -	SG	\$9.00	Fisher Science	NC0343907
CCLI	6" Steel Dial Calipers, graduated in .001, White faced Dial	Each	E	1x	20	0	\$ -	SG	\$39.88	Fisher Science	NC0826805
CCLI	Compact Digital Scale, 2000g. Capacity -1gram readability g, lb, oz, modes.	Each	E	1x	1	0	\$ -	SG	\$77.98	Fisher Science	S402421
CEA	Sieve, Soil Testing, #40, 8" Dia.	Each	E	1x	2	0	\$ -	SG	\$37.88	Fisher Science	04 881 5R
CEA	Brass Cover, 8" for sieve pan	Each	E	1x	2	0	\$ -	SG	\$9.94	Fisher Science	04 886A
CEA	Brass bottom pan, 8" for soil sieve	Each	E	1x	2	0	\$ -	SG	\$16.37	Fisher Science	04 886C
CEA	Sieve, Soil Testing, #4, 8"Dia.	Each	E	1x	2	0	\$ -	SG	\$33.84	Fisher Science	S12881


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CEA	Ohaus Triple Balance Beam Scale, 610g capacity, 0.1g sensitivity	Each	E	1x	1	0	\$ -	SG	\$85.83	Fisher Science	S40020
CEA	Ohaus Triple Balance Beam Scale with weight set, 2610g capacity with weight set, 0.1g sensitivity	Each	E	1x	1	0	\$ -	SG	\$109.91	Fisher Science	S97281
CIM/POE	20 mm syringes - 50 pack	Pkg/50	C	CS	1	0	\$ -	SG	\$23.27	Fisher Science	1484030
CIM/POE	12 CC syringe for Hydraulics	Pkg/10	E	CS	1	0	\$ -	SG	\$6.61	Fisher Science	NC0434289
CIM/POE	Flexible Vinyl Tubing for Hydraulics 1/8in. I.D. 100ft	Roll	C	CS	1	0	\$ -	SG	\$11.95	Fisher Science	S504561
DE	Magnifying Lens Xlite	Each	E	1x	1	0	\$ -	SG	\$7.50	Fisher Science	S68536
IED	Linking Cubes	Pkg/500	E	1x	1	0	\$ -	SG	\$16.09	Fisher Science	S94318
IED	250 ml Polymethylpentene (PMP) Cylinder	Each	E	1x	10	0	\$ -	SG	\$4.61	Fisher Science	S32814A
OPT	Great Planes RealFlight G6 RC Flight Simulator w/InterLink Elite Mode 2	Each	E	1x	1	0	\$ -	SG	\$216.66	Fisher Science	NC0520048
OPT - AE	Hobbico FlyZone Cessna 182 RTF 4-Channel RC Airplane w/2.4GHz Radio - A2505	Each	E	1x	1	0	\$ -	SG	\$350.00	Fisher Science	NC0762089
POE	20 CC Syringe for Hydraulics	Pkg/10	C	CS	1	0	\$ -	SG	\$16.62	Fisher Science	NC0434288
POE	Balsa sticks (3/32 x 3/32 x 36 in.)	Pkg/50	C	CS	2	0	\$ -	SG	\$8.44	Fisher Science	S12890

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