

HST science lab supplies list for use with:

Science Lifepac® Grade 12 by Alpha Omega Publications

This order form lists the science equipment and materials Home Science Tools provides that are applicable to the above science curriculum. Items readily available at grocery stores and a few items not offered by Home Science Tools are not included. Home Science Tools is not affiliated with the above curriculum publisher.

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In Kit	Quantity Needed	Item Description	Curriculum Reference and Comments	Item Number	Unit Price
<input type="checkbox"/>	1	Lab Kit for LIFEPAC Science Grade 12	1-8 Contains the "X" marked items in the quantity we recommend. Order additional items as necessary to meet your needs.	AO-KIT1200	\$334.95
<input type="checkbox"/>	1	Digital Scale, 2000 g x 0.1 g	1,2,3 BS-SCALE3 and BS-SCALE2 will allow you to do most of the labs without a balance. To do all of the labs, we recommend this digital scale as a faster, easier-to-use, and more economical alternative to a traditional mechanical balance.	BS-DB2000	\$51.95
<input type="checkbox"/>	1	Ethyl Alcohol, 95%, 30 ml	1 Rubbing alcohol works acceptably.	UN-ETHYALC	\$5.30
<input checked="" type="checkbox"/>	1	Graduated Cylinder, polypropylene, 100 ml	1 Use for both 50 and 100 ml cylinders.	CE-CYPP100	\$4.75
<input checked="" type="checkbox"/>	1	Oleic Acid, 30 ml	1 A cake pan will work for the tank.	CH-OLEIC	\$4.85
<input checked="" type="checkbox"/>	2	Pipet (medicine dropper)	1	CE-DROPPER	\$0.50
<input checked="" type="checkbox"/>	2	Plastic Student Thermometer	1	ME-THERMPL	\$2.50
<input type="checkbox"/>	1	Razor Blade, single edge, 1 pack	1 Optional. Sharp scissors will work.	CE-RAZOR	\$0.45
<input checked="" type="checkbox"/>	1	Slides, plain glass, 12 pack	1	MS-SLIDEPL	\$1.80
<input type="checkbox"/>	1	Talc, 30 g	1 Baby powder will work.	CH-TALC	\$3.05
<input checked="" type="checkbox"/>	1	Paper, special set, 10 sheets	1,2 Includes the acetate sheet needed. Use 1 sheet and 3 different colored markers for 2', 4' and 6' diagrams. Can also use the drawing paper and tracing paper.	GS-PAPERSP	\$2.45
<input type="checkbox"/>	1	Rubber bands, 1.4 oz. bag	1,2	GS-RUBBAND	\$1.90
<input checked="" type="checkbox"/>	2	C-clamp, 2"	1,2,3	GS-CLAMP	\$3.20
<input checked="" type="checkbox"/>	1	Recording Spark Timer	1,2,3	MC-TIMERSP	\$40.95
<input checked="" type="checkbox"/>	1	Meterstick, 100 cm	1,2,3,4,5	ME-METER2	\$12.95
<input checked="" type="checkbox"/>	1	Recording Timer Paper Tape	1,2,3,5 We recommend an extra roll to do all the labs.	MC-TAPE	\$3.45
<input checked="" type="checkbox"/>	1	Ruler, 30 cm	1,2,5 You can also use this ruler to make the ramp for the collision apparatus in 1202 instead of buying the Collision in 2-D apparatus.	ME-RULER	\$0.90
<input checked="" type="checkbox"/>	1	Spring scale, 500 g/5 Newton	1,3 Optional. Will work acceptably instead of a balance for 1201 and 1203.	BS-SCALE2	\$4.05

In Kit	Quantity Needed	Item Description	Curriculum Reference and Comments	Item Number	Unit Price
<input checked="" type="checkbox"/>	1	Thermometer, Celsius, 12"	1,3,4 Use 3 thermometers (1 of ME-THER30B and 2 of ME-THERMPL) instead of 15-30 for the lab in 1201. Move them to different levels in the room.	ME-THER30B	\$3.10
<input type="checkbox"/>	1	Collision in 2 Dimensions Kit	2 This is the apparatus shown in Section 4. You can make one with wooden blocks and ME-RULER.	MC-COLL2D	\$19.95
<input checked="" type="checkbox"/>	1	Dynamic carts, set of 2	2 This set includes everything needed to do these labs. The carts weigh about 2 lbs. each. A skate will work as a substitute for some of the labs. Also, for masses we suggest using general household items rather than costly, large scientific masses.	MC-DYNCART	\$59.95
<input checked="" type="checkbox"/>	1	Glass Tube, 5 mm, 6" long	2	CE-TUBEG6	\$0.75
<input type="checkbox"/>	1	Paper Clips, small, 100/box	2	GS-PCLIPSM	\$0.60
<input checked="" type="checkbox"/>	2	Rubber stopper, #4, 2-hole	2	CE-STOP04B	\$0.65
<input checked="" type="checkbox"/>	1	Spring scale, 1000 g/10 Newton	2 Optional. Will work acceptably instead of a balance for 1202.	BS-SCALE3	\$4.05
<input type="checkbox"/>	1	Digital Stop Watch, 2"	2,4	ME-STOPWAT	\$5.80
<input checked="" type="checkbox"/>	3	Washers, 1", 5 pack	2,4	GS-WASHERS	\$1.30
<input checked="" type="checkbox"/>	1	Ball, steel, 0.5", pair	2,5 Not required if you buy MC-COLL2D.	MC-BALLST1	\$1.65
<input type="checkbox"/>	1	Wood Ramp, economy	2,5	MC-RAMP1	\$6.95
<input type="checkbox"/>	1	Styrofoam Cups, 8 oz, with lids 5 pack	3 Optional. Can be used to make a calorimeter instead of buying one.	CE-CUPSTYR	\$1.00
<input type="checkbox"/>	2	Weight, 100 g, with hook	3	BS-WTE100	\$4.25
<input type="checkbox"/>	1	Weight, 200 g, with hook	3 Also use instead of 300 g masses.	BS-WTE200	\$6.25
<input type="checkbox"/>	1	Weight, 50 g, with hook	3 Can make the weights using a spring scale, plastic bag and sand.	BS-WTE050	\$3.95
<input checked="" type="checkbox"/>	1	String, heavy cord, 25'	3,4,5	MC-STRING	\$2.05
<input checked="" type="checkbox"/>	1	Support Stand, 4" x 6" base, 18" rod	3,4,5,6	CE-STAND2	\$14.95
<input type="checkbox"/>	0	Right Angle Clamp	3,6 Optional. Not necessary if you come up with an alternate method of hanging the pendulum.	CE-RCLAMP	\$5.75
<input type="checkbox"/>	0	Rod, steel, 0.25" x 10"	3,6 Optional. Not necessary if you come up with an alternate method of hanging the pendulum.	GS-RODSTL	\$2.90
<input checked="" type="checkbox"/>	1	Glass Plate, 5" x 5"	4 Only needed if you make your own ripple tank.	CE-GLASS5	\$2.05
<input checked="" type="checkbox"/>	1	Slinky, metal, extra large	4 A regular Slinky will not work well for these labs.	MC-SLINKY2	\$7.20
<input checked="" type="checkbox"/>	1	Sound Measurement Kit	4	MC-SOUNKIT	\$20.95
<input checked="" type="checkbox"/>	1	Spring, helical, 6'	4	MC-SPRING1	\$15.95
<input checked="" type="checkbox"/>	1	Burette Clamp	4,5	CE-CLAMP	\$7.10
<input checked="" type="checkbox"/>	2	Clay, modeling, 1/4 lb.	4,5 Use as weights to make the torsion apparatus in 1204. Use paper strips as bands and straws as cross-rods.	GS-CLAY	\$2.25

In Kit	Quantity Needed	Item Description	Curriculum Reference and Comments	Item Number	Unit Price
<input checked="" type="checkbox"/>	1	Protractor, 6" semi-circle	4,5	ME-PROTRSM	\$0.95
<input checked="" type="checkbox"/>	1	Lens, double convex, 150mm f/l	5	OP-LEN4X15	\$1.80
<input checked="" type="checkbox"/>	1	Light, small beam penlight	5	OP-LIGHT3	\$3.90
			Use any small flashlight. A bright thin beam works best.		
<input checked="" type="checkbox"/>	2	Mirror, glass plane, 4"x 4"	5	OP-MIRROR3	\$2.05
<input checked="" type="checkbox"/>	1	Optical Slit Kit	5	OP-OPTSLIT	\$28.95
			This set contains everything needed to do the labs in 1205.		
<input checked="" type="checkbox"/>	1	Polarizing Film Kit	5	OP-POLARIZ	\$3.95
<input checked="" type="checkbox"/>	1	Prism, glass, 25mm x 75mm	5	OP-PRISM	\$7.95
			We recommend omitting the portion that uses a light pipe.		
<input checked="" type="checkbox"/>	1	Refraction Box, semi-circle	5	OP-REFRAC3	\$3.75
<input checked="" type="checkbox"/>	1	Rubber Tubing, 4.8 mm, 2' long	5	CE-TUBERU2	\$2.90
<input checked="" type="checkbox"/>	1	Battery Holder for D Cell	5,8	EL-BATTHLD	\$2.75
<input checked="" type="checkbox"/>	1	Battery, D, heavy duty, 2 pack	5,8	EL-BATTD2	\$2.30
<input checked="" type="checkbox"/>	1	Bulb holder, 1-bulb	5,8	EL-BULBHD1	\$1.15
			Use for optical light source.		
<input checked="" type="checkbox"/>	1	Bulb, screw style, 1.5-volt	5,8	EL-LAMP1.5	\$0.65
			Use for optical light source.		
<input checked="" type="checkbox"/>	1	Copper Wire, insulated, #24, 15'	5,8	EL-WIRE24H	\$2.40
<input type="checkbox"/>	1	Friction pad, fur, about 4x5"	6	GS-PADFUR	\$2.85
			Not necessary with EL-STATKIT.		
<input checked="" type="checkbox"/>	1	Friction pad, silk, 6x6"	6	GS-PADSILK	\$2.20
<input type="checkbox"/>	1	Friction rod, glass, 0.25" x 10"	6	GS-RODGLAS	\$0.95
			Not necessary with EL-STATKIT.		
<input type="checkbox"/>	1	Friction rod, rubber	6	GS-RODRUB	\$3.15
			Not necessary with EL-STATKIT.		
<input type="checkbox"/>	1	Pith Balls, threaded, 2 pack	6	EL-PITHBAL	\$1.95
			Not necessary with EL-STATKIT.		
<input checked="" type="checkbox"/>	1	Static Electricity Study Kit	6	EL-STATKIT	\$13.50
<input checked="" type="checkbox"/>	1	Bar Magnets, 3" Alnico I, 2 pack	8	MG-BAR3AL	\$9.10
<input checked="" type="checkbox"/>	1	Compass, magnetic, 1.5"	8	GS-COMPASS	\$3.05
<input checked="" type="checkbox"/>	1	Iron Metal Filings, 30 g	8	CH-IRON	\$2.45

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