

PHYSICS IN CONTEXT

Lab Resources

Leading Education Into The Future

325 S. Persimmon St., Suite B • Tomball, TX. 77375

Toll Free: (888) 963-2200 • Fax: (281) 516-2202 • www.lab-resources.net

PHYSICS IN CONTEXT

Lab Inventory Form

For a quote, please complete and fax to (281) 516-2202

Please Use 1 Form PER STATION in your lab

BREADBOARDING EQUIPMENT

Model 12500-1

QTY	PART NO.	DESCRIPTION	Should Have	Need To Order
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EACH SET TO INCLUDE THE FOLLOWING:

1	15200	Circuit Panel	1	
1	23500	Circuit Panel Easel	1	
1	14500 PA	Support Stand Set	1	

PHYSICS IN CONTEXT

ELECTRICAL MOUNTED COMPONENTS

Model 12500-2A

QTY	PART NO.	DESCRIPTION	Should Have	Need To Order
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EACH SET TO INCLUDE THE FOLLOWING:

2	12209 A	Phone Jack, Mounted	2	
1	12511	Red LED	1	
1	20254 P	Inductor, 1.5H	1	
1	20257 D	Lamp #53, w/Mounted Base	1	
1	20256 P	SPDT Slide Switch	1	
1	20258 D	SPST Knife Switch	1	
1	541-05101 M	Resistor, 100 Ohm 1W	1	
1	541-05391 M	Resistor, 390 Ohm 1W	1	
1	541-05471 M	Resistor, 470 Ohm 1W	1	
2	541-05102 M	Resistor, 1K Ohm 1W	2	
1	541-05202 M	Resistor, 2K Ohm 1W	1	
1	541-05562 M	Resistor, 5.6K Ohm 1W	1	
1	541-05822 M	Resistor, 8.2K Ohm 1W	1	
1	541-05103 M	Resistor, 10K Ohm 1W	1	
1	12512-10	Storage Board	1	

PHYSICS IN CONTEXT

HARDWARE & MEASURING PACKAGE

Model 12500-3

QTY	PART NO.	DESCRIPTION	Should Have	Need To Order
EACH SET TO INCLUDE THE FOLLOWING:				
1	12090 B	Splash Guard	1	
1	15005 A	Hook-up Wire, Stripper & Spring Tip Set	1	
1	15710 P	Universal Lead Set	1	
1	12090 A	Stirring Attachment	1	
1	12052-2.5	Spring Scale, 2.5 Newton	1	
1	12052-5	Spring Scale, 5 Newton	1	
1	12105 A	"S" Hook & Allen Wrench Set	1	
1	12101 B	Black Marking Pencil	1	
1	12098 A	Digital Stopwatch	1	
1	12045	Extension Spring	1	
1	12096	Protractor	1	
1	12097	Ruler, (30CM)	1	
1	12083	Shaft Coupler Package	1	
1	12057 A	Single Pulley w/Bracket	1	
1	12049 A	Small Weight Hanger	1	
1	12048 B	Small Weight Set	1	
1	12059 B	Spool Pulley	1	
1	20205 A	Compass	1	
1	12318	Tape Measure, 25'	1	
1	125 SF 3	Storage Foam	1	

PHYSICS IN CONTEXT

MECHANICAL MOUNTED COMPONENTS

Model 12500-4

QTY	PART NO.	DESCRIPTION	Should Have	Need To Order
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EACH SET TO INCLUDE THE FOLLOWING:

1	12032 MC	Air Motor	1	
1	12026 M	30-0-30 PSI Compound Pressure Gauge	1	
2	12029 MG	12 VDC Motor/Generators	2	
1	125 SF 4	Storage Foam	1	

PHYSICS IN CONTEXT

FLUID ACCESSORIES

Model 12500-5

QTY	PART NO.	DESCRIPTION	Should Have	Need To Order
EACH SET TO INCLUDE THE FOLLOWING:				
2	12167	Hydrometer Jar	2	
1	12067 H	Hydrometer (High Density)	1	
1	12067 L	Hydrometer (Low Density)	1	
1	12067 B	Hydrometer, Pocket	1	
1	12128 A	Water Pump, Self-Priming	1	
1	12513	Tubing Accessory Kit	1	
1	12160 G	Pressure Regulator w/Gauge	1	
1	12070 MB	Flowmeter	1	
1	125 SF 5	Storage Foam	1	

PHYSICS IN CONTEXT

THERMAL ACCESSORIES

Model 12500-6

QTY	PART NO.	DESCRIPTION	Should Have	Need To Order
EACH SET TO INCLUDE THE FOLLOWING:				
1	12517	Test Tube, 25 x 150mm	1	
1	12515	Beaker Support Ring	1	
1	12516	1000ML Beaker w/Quick Disconnect	1	
1	12077 P	1" x 3" Aluminum Cylinder w/Foam	1	
1	11301-04	Beaker, 600ml HR Glass	1	
1	12065 A	Beaker, Polypropylene 1000ml	1	
1	12064 A	Beaker, Polypropylene 600ml	1	
1	12077-05 A	Heat Sink Block	1	
1	12023 B	Hot Plate	1	
1	12077-06 A	Insulator Block	1	
2	12072	Thermometer, Scaled	2	
1	12091	Specific Heat Samples	1	
1	12514	Thermal Container	1	
1	12077-10	Thermal Lid w/Heater	1	
1	11352-06	#2 Rubber Stopper	1	
1	12053	Beaker Tongs	1	
1	125 SF 6	Storage Foam	1	

PHYSICS IN CONTEXT

CONTAINER & ACCESSORY PACKAGE

Model 12500-7

QTY	PART NO.	DESCRIPTION	Should Have	Need To Order
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EACH SET TO INCLUDE THE FOLLOWING:

1	12040-5	Large Container	1	
1	12179	Resistance Tubing Set	1	
1	12095 CB	Tubing Set	1	
1	12012 C	Water Channel Assembly	1	
1	12099 A	Meter Stick	1	
1	12200 GB	Acrylic Guard	1	

PHYSICS IN CONTEXT

SPECIAL ASSEMBLIES

Model 12500-8

QTY	PART NO.	DESCRIPTION	Should Have	Need To Order
EACH SET TO INCLUDE THE FOLLOWING:				
1	12062 A	Cylinder Mounting Bracket	1	
1	12016 A	Spring Test Assembly	1	
1	12510	Toy Car	1	
1	12530	Friction Plate Set To Include:	1	
	12530-10	Large Steel Plate		
	12530-20	Small Steel Plate		
	12530-30	Small Nylon Plate		
	12530-40	Small Delrin Plate		
1	12520	Delrin Torque Block	1	
1	12011C-12	Three Stepped Pulley w/Set Screw	1	
1	125 SF 8	Storage Foam	1	

PHYSICS IN CONTEXT

WAVES & MOMENTUM

Model 12500-9A

QTY	PART NO.	DESCRIPTION	Should Have	Need To Order
EACH SET TO INCLUDE THE FOLLOWING:				
1	12202 A	Moment of Inertia Mechanism	1	
1	61500	Dual Input Digital Thermometer	1	
2	61510	K-Type Thermocouples	2	
1	12204	Extension Spring	1	
1	12226 A	Microphone w/Mount	1	
1	12207 SA	Sound Tube Support Stand	1	
1	12207 A	Sound Wave Tube Set	1	
1	12210 MB	Speaker w/Mount	1	
2	12208-04	Support Rod 4 ¹ / ₂ "	2	
2	12208-02	Universal Base Stand	2	
1	12526 A	Wall Transformer	1	
1	125 SF 9A	Storage Foam	1	

PHYSICS IN CONTEXT

RADIATION & OPTICS

Model 12500-10A

QTY	PART NO.	DESCRIPTION	Should Have	Need To Order
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EACH SET TO INCLUDE THE FOLLOWING:

1	12430-22	Lamp Socket w/Plug	1	
1	12271	Aluminum Block	1	
1	12245	Beam Splitter	1	
1	12245 M	Beam Splitter Mount	1	
1	12244	Color Filter Set	1	
1	12244 H	Color Filter Set Holder	1	
1	12241 B	Diode Laser w/Shutter Assembly	1	
1	12243 B	Laser Mounting Base	1	
1	12249	Lens Set	1	
1	12248	Mirror Set	1	
1	12261 A	Screen	1	
1	12238 A	Spectroscope	1	
1	12270	Straight Line Filament Lamp	1	
1	12246 M	Universal Optical Mount	1	
1	12243 A	Laser Mounting Stud	1	
1	12247	Optics Table*	1	
1	125 SF 10A	Storage Foam	1	

*Shipped In Separate Carton

PHYSICS IN CONTEXT

LABORATORY ITEMS

Model 12500-11

QTY	PART NO.	DESCRIPTION	Should Have	Need To Order
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EACH SET TO INCLUDE THE FOLLOWING:

1	12085 A	Nylon Cord	1	
1	12750	Triple Beam Balance	1	
1	12235	Spectrum Wall Chart	1	
1	12239 A	Radiation Demonstration Set	1	
2	12268	*Radiation Spectrum Set	2	

* Radiation Spectrum Set Includes The Following:

12236	HV Spectrum Tube Power Supply
12237-01	Spectrum Tube, Hydrogen
12237-02	Spectrum Tube, Helium
12237-03	Spectrum Tube, Nitrogen
12237-04	Spectrum Tube, Neon

PHYSICS IN CONTEXT

INSTRUMENTATION & MANUALS

QTY	PART NO	DESCRIPTION	Should Have	Need To Order
<u>LEVEL 1 EQUIPMENT</u>				
1	20600 F	High Current Power Supply	1	
1	50200 A	Digital Multimeter	1	
1	50500 B	Mosfet Multimeter	1	
1	40600	Function Generator	1	
1	30930	30MHz Dual Trace Oscilloscope w/Counter	1	
1	61600	Digital Tachometer	1	

MANUALS

1	12501	Physics In Context Laboratory Manual [§]		
1	12501 J	Physics In Context Student Journal [‡]		
1	12503	Instructor's Guide		
1	1-57837-275-5	CORD Physics In Context Student Text		
1	1-57837-276-3	CORD Physics In Context Teacher's Guide Set*		
1	1-57837-375-1	CORD Physics In Context Teacher's Guide CD-ROM		

* Free Teacher's Guide w/Purchase of 25 Student Texts

[§]One (1) Per Station Recommended

[‡]One (1) Per Student Recommended