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This Master Materials and Equipment List shows the equipment required to perform the *Structured* version of each lab activity from the *Advanced Physics 2 Lab Manual*. Italicized entries indicate items not available from PASCO. The quantity indicated is per student or group.

Teachers can conduct some lab activities with sensors and probes other than those listed here. For assistance with substituting compatible sensors and probes for a lab activity, contact PASCO Teacher Support (800-772-8700 inside the United States or <http://www.pasco.com/support>).

Lab	Title	Materials and Equipment	PASCO Part Number	Qty
1	<b>HYDROSTATIC PRESSURE</b> Students use a pressure sensor to measure the static pressure at different depths in a column of water and use their data to determine the mathematical relationship between static pressure and depth in a fluid.	<b>FOR EACH STUDENT STATION</b> Data Collection System PASCO Wireless Pressure Sensor Male Luer lock connector* Tubing, 1/8" inner diameter* Four-Scale Meter Stick <i>Water reservoir, transparent, over 40 cm high</i> <i>Distilled water to fill the reservoir</i>	PS-3203 PS-3203 w/PS-3203 SE-8695	1 1 1 60 cm 1 1 2 L
2	<b>BUOYANT FORCE</b> Students use the Smart Cart force sensor to measure the buoyant force on a metal cylinder lowered into a fluid and then determine the relationship between the buoyant force on a submerged object and a) its volume and b) the weight of the fluid displaced by the submerged object.	<b>FOR EACH STUDENT STATION</b> Data Collection System PASCO Smart Cart with hook PASCO Smart Cart Base Stand Adapter PASCO Overflow Can PASCO Clamping Table Clamp Brass cylinder* <sup>1</sup> Aluminum cylinder* <sup>1</sup> <i>l = 4.5 cm</i> Right angle clamp Four-Scale Meter Stick Thread <i>Beaker, 100-mL</i> <i>Beaker, 1-L</i> <i>Glass stir rod</i> <i>Felt-tipped pen with permanent ink</i> <i>Liquid dish soap</i> <i>Distilled water</i> <i>Paper towel</i> <sup>1</sup> Any two metal cylinders (of different metals) that can be suspended vertically above their center can be used.	ME-1240 ME-1244 SE-8568 ME-8995 w/ME-8569A w/ME-8569A ME-8736 SE-9444 SE-8695 ME-9875	1 1 1 1 1 1 2 1 1 1 60 cm 1 1 1 1 1 3 mL 500 mL 1 roll
		<b>FOR THE ENTIRE CLASS</b> Ohaus Scout Pro Balance 400-g	SE-8756A	1























