

MASTER MATERIALS AND EQUIPMENT LIST

This Master Materials and Equipment List shows the equipment required to perform the *Structured* version of each lab activity from the *Advanced Physics 1 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	GRAPHICAL ANALYSIS: MOTION Students measure the position and velocity of a cart on a track to determine the graphical relationship between position, velocity, and acceleration versus time graphs.	FOR EACH STUDENT STATION Data Collection System PASCO Smart Cart PASCO PAStrack PASCO Dynamics Track End Stop Four Scale Meter Stick <i>Thick Text Book</i>	 ME-1240 ME-6960 w/ME-8971 SE-8695	 1 1 1 1 1 1
2	NEWTON'S SECOND LAW Students use a Smart Cart to determine the relationship between a system's mass, acceleration, and the net force being applied to the system.	FOR EACH STUDENT STATION Data Collection System PASCO Smart Cart PASCO PAStrack PASCO Dynamics Track End Stop PASCO Super Pulley with Clamp* PASCO 500-g Compact Cart Mass PASCO Mass and Hanger Set Thread FOR THE ENTIRE CLASS Ohaus Scout Pro Balance 2,000-g	 ME-1240 ME-6960 w/ME-8971 w/ME-9433 ME-6755 ME-8979 ME-9875 SE-8757B	 1 1 1 1 2 1 1 m 1
3	ATWOOD'S MACHINE Students use a photogate and pulley system to determine the mathematical relationship between the acceleration of an Atwood's machine, the difference between its two masses, and the sum of these two masses.	FOR EACH STUDENT STATION Data Collection System PASCO Wireless Smart Gate PASCO Super Pulley with Mounting Rod* PASCO Mass and Hanger Set PASCO Aluminum Table Clamp 60-cm Stainless Steel Rod Right Angle Clamp Thread <i>Scissors</i>	 PS-3225 w/ME-9433 ME-8979 ME-8995 ME-8977 SE-9444 ME-9875	 1 1 1 1 1 1 1 m 1

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