

Equipment needed for IOLab RTP Mechanics

Item	Per Student	Note	Source
Screw and plate	1	Manufactured in house (in stock)	M3 knurled head thumb screw, McMaster https://www.mcmaster.com/#92552a414/=1865c74
Thumb tack	1	Impulse-momentum lab	Office Depot
springs	2 (one small, one big)	Included with IOLab, replacements for loss	Included with IOLab
Hook or eye bolt	1	Included with IOLab, need replacements for loss; manufactured (in stock)	Included with IOLab
Skinny fishing line (1 meter each)	2		Amazon
Bouncy ball	1	Impulse-momentum lab	Amazon
Clay (60-70 g)	1	Impulse-momentum lab; 3-4 x mass of bouncy ball	Michaels
Large Binder Clip 1"	1	Force lab	Office Depot
Rubber bands#19, 3 1/2" x 1/16"	5	Force lab, 1 extra as replacement	Office Depot
Protractor	1	Several labs	Amazon
3/4 oz fishing weights; must be this weight!	3	Force lab	Amazon
mini carabiners (or whatever they are called) for fishing weights	1	tie to string and attach to fishing weights; as light as possible that will still hold 3 fishing weights at once	Amazon
IOLabs	1		https://store.macmillanlearning.com/us/product/iOLab-Version-2-0/p/1464101469
Students Provide			
AA batteries	2	Needed for replacement	
IOLab box	1	To put coins, etc. in for doubling, tripling the mass.	Included with IOLab/ substitute water bottle
Long board or equivalent	1	Several labs	
Improvised object near mass of IOLab	1	Impulse-momentum lab	
Scotch tape		Impulse-momentum lab	
Coins		For doubling and tripling mass in second law lab	
Heavy books		Raise ramp for kinematics, used in work-energy	