

Mechanics Module 1 – Equipment List and Setup

What	Qty	Activities
2.2 meter Track, Pasco ME-9452	1	11 - 13
Cart Launcher, Pasco ME-9488	1	11 - 13
End Stop, Pasco ME-9808	1	11 - 13
Collision Cart, Pasco ME-9454	1	11 - 13
Large Table Clamp, Pasco ME-9472	2	11 - 13
Homemade rod assembly	1	11 - 13
Set of risers, homemade: <ul style="list-style-type: none"> • 4 × 1.000 cm thick blocks, ~3” × 6” • 4 × 0.500 cm thick blocks, ~3” × 6” • 4 × 0.100 cm thick blocks, ~3” × 6” 	1 set	11 - 13
Level	1/group or pod	11 - 13
Digital Caliper (black case)	1	11 - 13
Deck of cards	1	11 - 13
Stopwatch	1	11 - 13

Note: an Instructor will pick up the Level before the Practical and return it after.

Setup Notes:

The feet brackets should support the Track at about 60 cm and 150 cm as measured on the Track’s scale. They should be mounted so their thumbscrews are on the same side of the Track as the scale.

The Track should be set up with the end with the smallest reading on the scale closest to the wall. The Track should be leveled and the feet locked.

The rod assembly should be fixed to the two Table Clamps and up against the Track feet that are closest to the wall. The rod is between the feet and the wall and braces the feet.

The Cart launcher is mounted on the Track on the end closest to the wall. Its thumbscrew should be on the opposite side from the scale of the Track. The Launcher needs to be far enough up the Track that when it is cocked at its maximum position it does not contact the wall.

The End Stop is mounted on end of the Track opposite the wall.

Note to technologists: The risers are used in this activity (instead of an end-clamp) in order to minimize sag in the track, keeping it as close to a straight line as possible.

DMH – July/07. Revised Dec.10, 2009 by Jason Harlow and Lilian Leung. Further revision by Sean al-Baroudi April 2015.