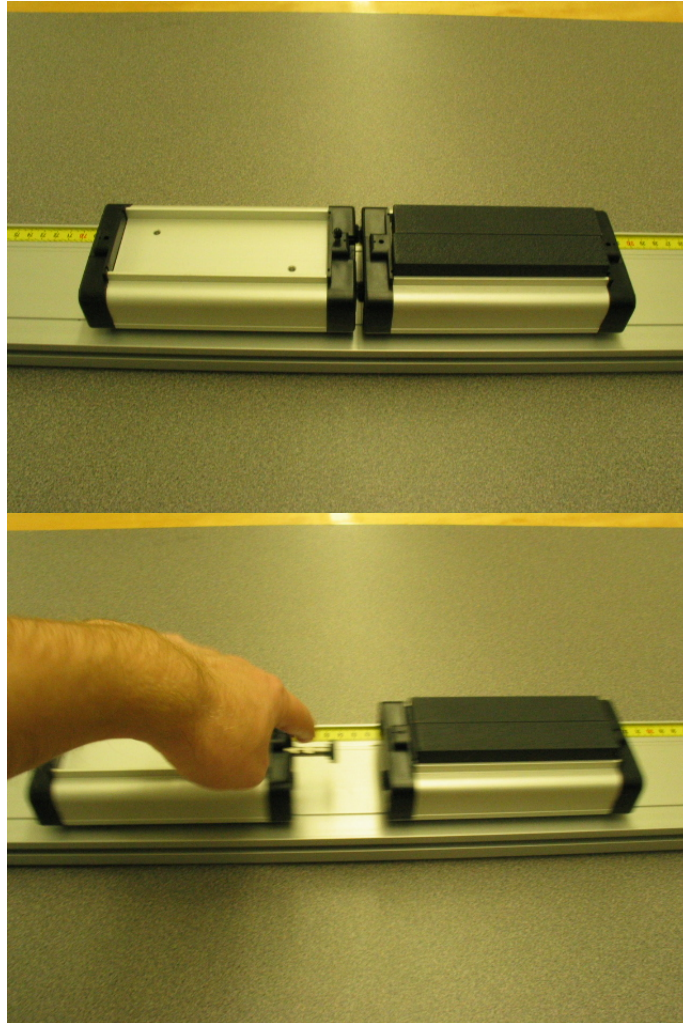


Spring Apart Carts



Purpose: To demonstrate conservation of linear momentum.

Location: room 136, shelf N4

(Track is on shelf U4 but is not necessary.)

Two carts are fixed together with Velcro and a loaded spring mechanism between them (top). The trigger is tripped and the spring pushes the carts apart with velocities inversely proportional to their masses, but net momentum remaining zero.