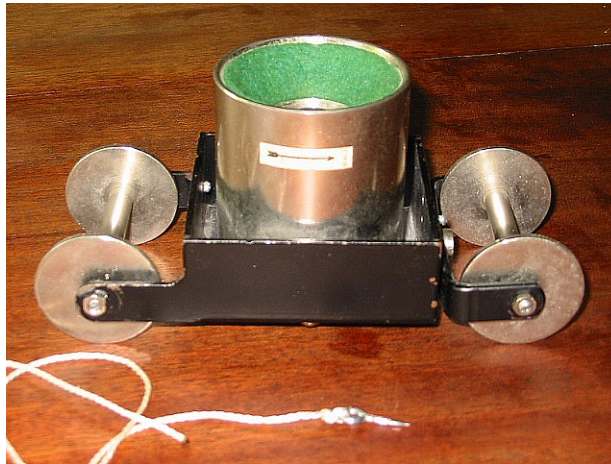


Ballistic Cart (Low Tech)



Purpose: Demonstrates the independence of motion in the horizontal and vertical directions.

This is a cute little demo showing how linear motion in the horizontal direction is independent of what's happening in the vertical: The cart launches a steel ball upward, and subsequently catches it down the road.

This old version of the demo is (I think) much more miraculous than the high-tech version: There is no surprise in seeing some complicated, sleek thing full of electronics work – at least for the cell-phone-toting students of today. Admittedly, success isn't assured with this version.

Note: Make sure the cart has something soft to crash into. To cock the spring, depress the launcher with your thumb and insert (*just barely*) the tapered firing pin into one of the holes on the pin which protrudes from the cart's bottom. Leave about two feet of slack in the line attached to the firing pin, and roll the cart.

Extra Equipment: None.

Location: Shelf A2.