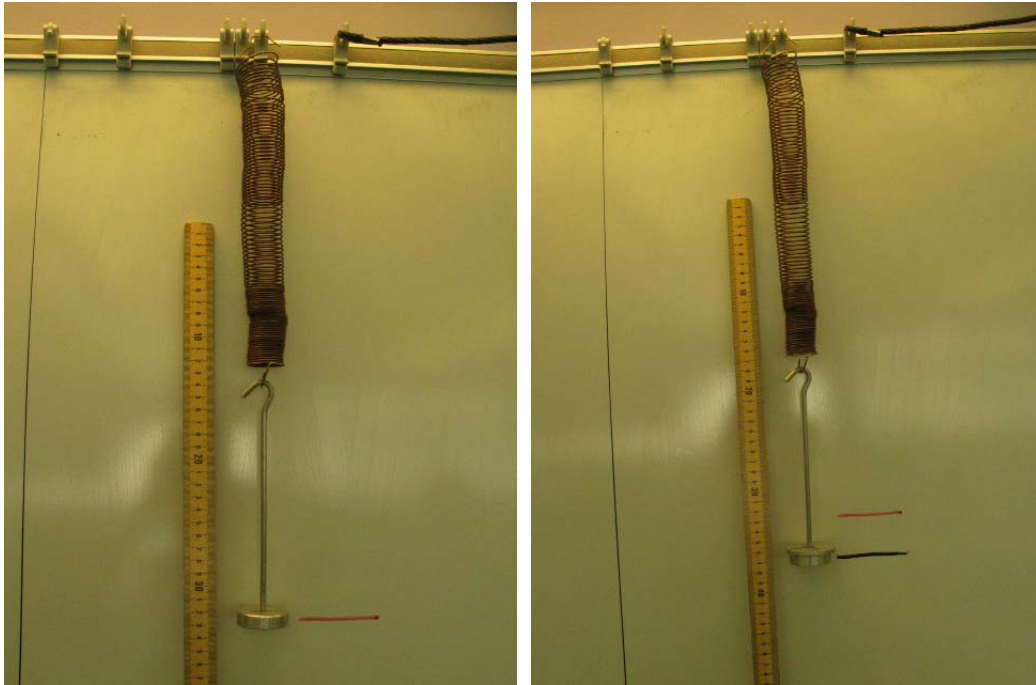


Stretching a Spring



Purpose: To demonstrate Hooke's law.

Location: room 136, shelf O3 (mass set and hanger on O2)

Hang the spring from one of the hooks above the whiteboard and suspend the hanger from the bottom. Mark the position of the bottom of the hanger with no added weights (left photo). Add, say 50 g to the hanger and mark the new equilibrium position of the bottom (right photo). Repeat the process adding mass in 50 g increments and it should soon be apparent that the amount of stretch induced in the spring is approximately linearly proportional to the amount of weight added to the hanger.

(Can also use for simple harmonic motion demo.)