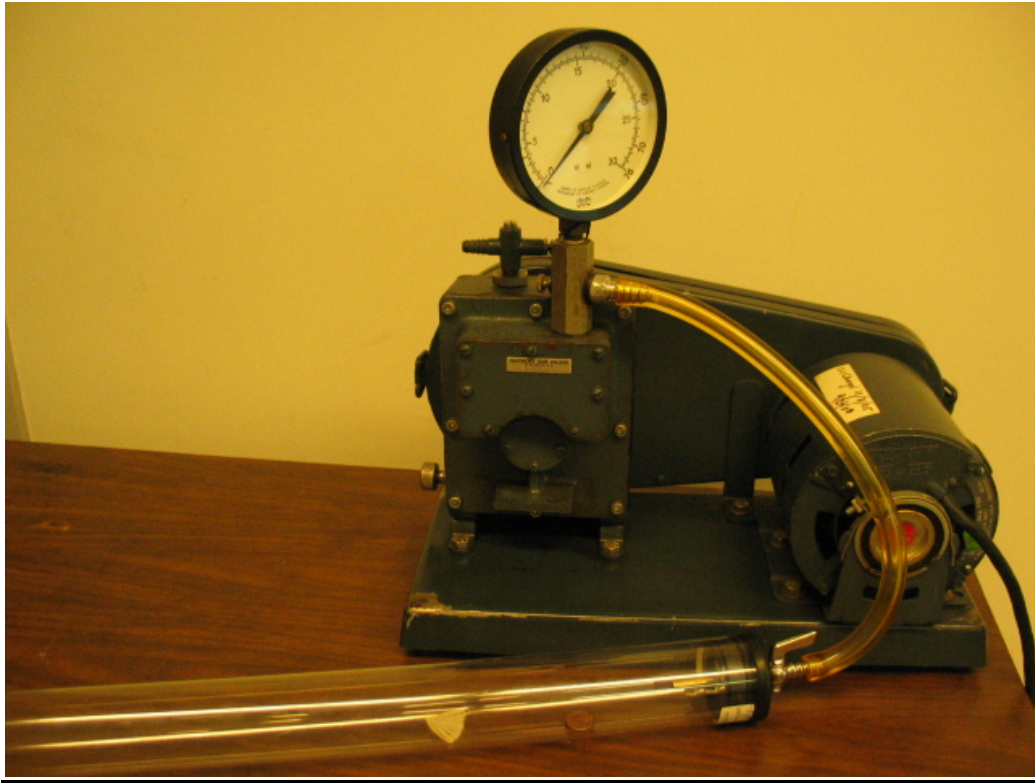


## Penny and Feather



**Purpose:** To demonstrate that all objects fall at the same rate in the absence of air

**Location:** room 136, on large wooden cart

(spare tube with penny and feather on wall shelf U7)

Evacuate the clear plastic tube using the vacuum pump on the wooden demo cart. Make sure that the bleed valve on the top of the pump is closed, and the tube valve is open (as shown).

When full vacuum is obtained shut the tube valve, turn the pump off and slowly bleed the vacuum from the tubing.

Remove demo tube from tubing. Invert the tube quickly to show that the feather falls just as fast as the penny. Slowly release vacuum, then, repeat to show the effects of air drag.