

Physics
Lab

Name _____

Date _____

Finding g

Purpose:

Materials:

Data Collection/Analysis:

Length of Ramp _____ m

Data Table

Calculating little g

Height of Ramp (m)	t ₁ (sec)	t ₂ (sec)	t ₃ (sec)	Average time down the ramp (sec)	Experimental $a = 2L/t^2$ (m/s ²)	Actual $a = g(H/L)$ (m/s ²)

Diagram

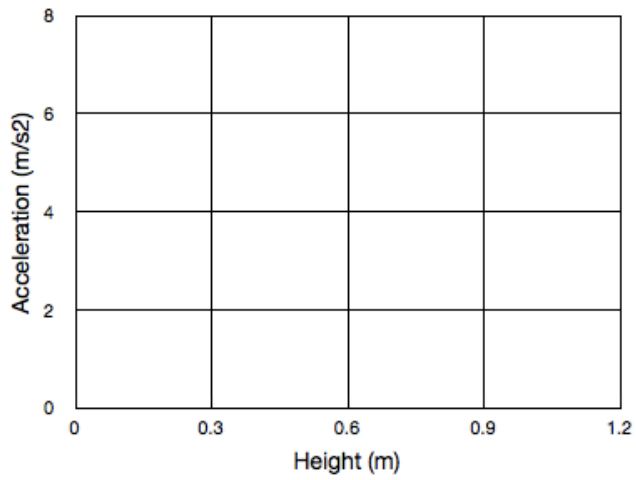
FreeFall Equation

$$L = 1/2at^2$$

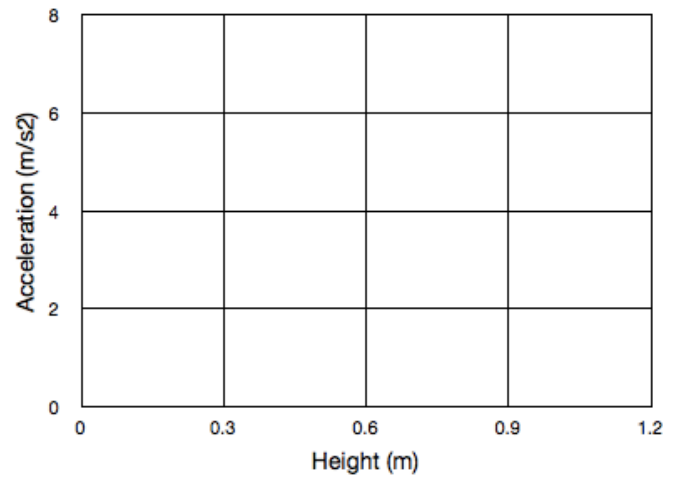
Data Analysis



Acceleration using Time down the Ramp



Acceleration using g and H/L



Conclusion
