

Free fall 1.3.07-01



What you can learn about ...

- Linear motion due to constant acceleration
- Laws of falling bodies
- Gravitational acceleration

Principle:

A sphere falling freely covers certain distances. The falling time is measured and evaluated from diagrams. The acceleration due to gravity can be determined.

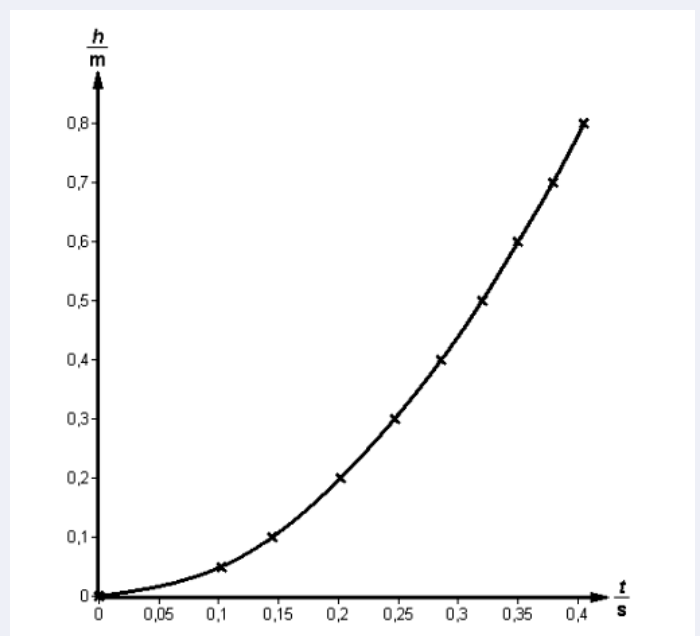
Tasks:

1. To determine the functional relationship between height of fall and falling time ($h = h(t) = 1/2 g t^2$).
2. To determine the acceleration due to gravity.

What you need:

Falling sphere apparatus	02502.88	1
consisting of:		
Release unit	02502.00	1
Impact switch	02503.00	1
Digital counter, 4 decades	13600.93	1
Support base -PASS-	02005.55	1
Right angle clamp -PASS-	02040.55	2
Plate holder	02062.00	1
Cursors, 1 pair	02201.00	1
Meter scale, demo, $l = 1000$ mm	03001.00	1
Support rod-PASS-, square, $l = 1000$ mm	02028.55	1
Connecting cord, $l = 1000$ mm, red	07363.01	2
Connecting cord, $l = 1000$ mm, blue	07363.04	2

Complete Equipment Set, Manual on CD-ROM included
Free fall P2130701



Height of fall as a function of falling time.