

Reaction Time [NOTEBOOK LAB]

Purpose:

The purpose of this activity is to apply our knowledge of 1-D Vertical Kinematics to determine our reaction time.

Materials:

- A. Ruler
- B. Calculator
- C. Pencil
- D. Partner
- E. Kinematic Equations



Procedure:

- A. With your partner, drop a ruler vertically between your partner's fingers starting with the ruler at 0 cm. (Shown above and to the right!)
- B. Your partner's fingers should be an about 4 cm apart.
- C. Measure how far the ruler falls and record it in the table on the back of this sheet.
- A. Repeat ten times and then switch roles with you partner.
- B. Calculate the time (t) for each trial.
- C. Determine your average reaction time.

Visit these websites to check your reaction times!!!

<http://www.rbracing-rsr.com/nhraxtreepro.html>

<http://webphysics.davidson.edu/Applets/TaiwanUniv/Reaction/reactionTime.html>

<http://www.exploratorium.edu/baseball/reactiontime.html>

<http://www.topendsports.com/testing/reactiontest.htm>

<http://kylan.newgrabs.com/reaction.swf>

Reaction Time Data Table

Trial Number n	Distance ΔY (Meters)	Time t, (Seconds)
1		
2		
3		

* Average reaction time:

Questions/Things you need to do individually:

1. Enter into you lab notebook this lab.
2. Include the following parts
 - a. Purpose
 - b. Data
 - c. Calculations

Name: _____

Dr. Croom's Physics

Date: _____

Lab 02-11

d. Results