Name:_____ Date:_____

Dr. Croom's Physics Lab 02-11

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

d. Results