

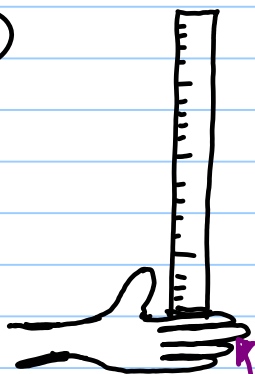
# Reaction Time Lab

Note Title

19/10/2009

## Procedure:

①



line up your hand with the 0 cm mark

Have someone else drop the ruler. Catch it as soon as you can. Note the displacement of the ruler.

Calculate your reaction time from the displacement of the ruler

$$V =$$

$$V_0 = 0$$

$$a = -9.80 \text{ m/s}^2$$

$$d = \boxed{\phantom{000}}$$

$$t = ?$$

Calculated Reaction Time:

② Use the reaction timer to determine your actual reaction time.

[http://www.bbc.co.uk/science/humanbody/sleep/sheep/reaction\\_version5.swf](http://www.bbc.co.uk/science/humanbody/sleep/sheep/reaction_version5.swf)

Actual Reaction Time:

③ Calculate the % difference between your measured and actual reaction times.

$$\% \text{ difference} = \frac{|\text{Calculated} - \text{Actual}|}{\text{Actual}} \times 100\%$$