

Name: _____ Date: _____ Period: _____

Biology: Reaction Time Lab

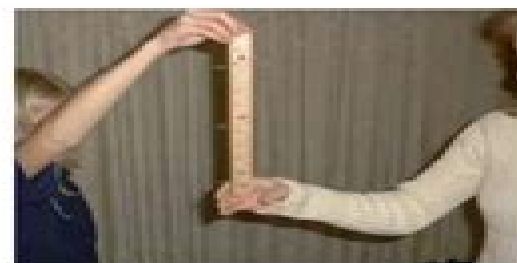
Are you a piano player or a video gamer? Then you might have a quick reaction time that can come in handy while playing sports. Reaction time is the time between a stimulus and your response. The stimulus is processed by your nervous system before you are able to react, and the time lag is your reaction time. Stimuli could be visual, auditory, tactile (touch), olfactory, or gustatory (taste). In this experiment you will be measuring your reaction time when presented with visual stimulation. You will also test the effects of temperature on your reaction time. The only equipment you will need will be a meter stick. Because the distance an object falls is a function of time, you can measure the distance the meter stick drops and use this to calculate your reaction time.

Problem: How does cold temperature affect reaction times?

Hypothesis: _____

Control Group:

1. Have partner #2 hold the ruler by the 30-cm end and dangling the 0-cm end of the ruler so that it is just even with the top of partner #1's thumb and index finger. (see picture)
2. Without any warning, partner #2 releases the ruler and partner #1 tries to catch it as quickly as possible.
3. Record the distance (top of finger) by checking to see how many cm the ruler fell.



Control Data

	1	2	3	4	5
Distance fell (cm)					
Reaction time (seconds)					

average time = _____

Experimental Data

	1	2	3	4	5
Distance fell (cm)					
Reaction time (seconds)					

average time = _____

How to Calculate Your Reaction Times:

We are going to use some physics to calculate how fast you were able to react to the falling ruler. The algorithm to calculate reaction time is $t = \sqrt{2d/a}$

t = reaction time

d = distance ruler fell in meters

a = acceleration due to gravity = 9.8m/s^2

For example, if a student caught the ruler after 14cm, here is how you would calculate the reaction time. Because the acceleration due to gravity is in the unit of "meters/sec²" this means you must convert your centimeter distance into meters. So a ruler falling 14cm would be the same as .14m.

$$t = \sqrt{2 \times .14\text{m} / 9.8\text{m/s}^2}$$

$$t = \sqrt{.28\text{m} / 9.8\text{m/s}^2}$$

$$t = \sqrt{.0285\text{s}^2}$$

$$t = .169\text{s (round to the nearest thousandth)}$$

Calculate your reaction times and fill in the data tables above.

Answer Key For Reaction Time Lab

Daniela Niemeyer



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