Name	n	ate of Data Collection	
	Lab Days/Period	Teacher	
	Reaction Time a	nd Reflexes	
your face? If so, you had mechanisms for protect "response" to a stimulur reflexes happen all the When you are struck juligaments inside the knowhich prevents a seriour rapid and of short durate.	u ever had to react to a save used two of our body ing your eyes: reflexes as that helps to protect the time. In fact, your last vest below the knee your le ee "capsule". If you pick is burn. All of these are ion since they do not relate to react occurs, rather, in	y's mot important – as wand reactions. A reflex body from injury. Oth isit to the doctor probable ower leg "kicks" up to possess up something very hot examples of reactions. y upon the brain for "de	vell as fastest — is an autonomic ner types of oly involved one. orotect the t, you may drop it Reflexes are very ccision making".
Laboratory Safety Pro are required for this lab	ecautions: The following:	g symbols represent the	precautions that
	The second secon		
-to understand t-to demonstrate	of this laboratory experience difference between a some human reflexes. Iculate your reaction time	reflex and a voluntary a	ction.
-transpar	or (w/square root) -pe	eter stick	xperience:
Procedure: The follow	ving procedure is utilized	d to perform this experie	ence:
2. The subject is to with the legs ab3. Once the legs ar	Reflexe Section 1. Reflexe Secti	ter" and "subject". b table (the ONLY time	e the side of their

What happened?

Name_		I	Date of Data Collection	
Class I	Period	_ Lab Days/Period	Teacher	
4.		person sit with their leg see and record your results.	straight out. Tap the knee in	n the same
	What happen	ed?		
5.	_	ct has been tested switch WN data on your lab par	places and repeat with the	partner.
6.	Have the subje one minute, sta	ct close his or her eyes fo	or one minute (no peeking). s and tell them to "open" th	/* . ¥
	What happen	ed?		
7. 8.	Record your O	WN data on your lab pap	places and repeat with the per. sock. Using a pen cap or fi	
0.			foot in one smooth stroke r	
	What happen	ed?		
10.	examination ca After the subje Record your O	lled the "Babinski's sign ct has been tested switch WN data on your lab pap	places and repeat with the	partner.
	Crumple up a s		GENTLY toss it toward the	
Cos	What happen	ed?		

12. After the subject has been tested switch places and repeat with the partner. Record your OWN data on your lab paper.

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index finger and thum "zero" (0 cm) mark. 2. Without warning, release Record the distance the Repeat the trial three results. 3. Switch roles and repeated. 4. Determine the average that average, calculate the equation below.	Reaction Time omfortably with their forearm resting on a desk. With their be about two inches apart, hold a meter stick or ruler at the asse the ruler and have them grasp it as quickly as they can, we meter stick traveled where the thumb meets the stick, more times and record your data. At steps 1 and 2. Be distance that the meter stick fell for all of the trials. Using the TIME it took for you to react and grab the ruler using as collected during this lab experience:				
	Reflexes				
Stimulus	Response				
Knee Tap (bent leg)					
Knee Tap (straight leg)					
Pupil Response to Light	500				
Babinski's sign	e) ~				
Object thrown towards face					
Reaction Time Trial Distance (cm) of Fall 1 2 4 Average Calculation of Reaction Time $t = \sqrt{2d/a}$) $t = \text{reaction time}$ $d = \text{average distance of fall}$ $a = \text{acceleration due to gravity} = 980 \text{ cm/s2}$ Therefore, calculate your reaction time. Show all work in this space.					

Name	Date of Data Collection				
Class Perio	od Lab Days/Period Teacher				
Conclusion	n: The following can be concluded from this lab experience:				
	100)				
Analysis Q	Questions: Answer the following questions in the space provided.				
1. Hov	w does the pupillary response prevent injury? What would happen without it?				
	<u></u>				
	ny is the blinking response effective? What kind of job would you have where used this reflex quite often?				
	3)th				
75	, o				
3. Nar	me three sports or occupations where having a fast reaction time is important.				

Name_		D	Date of Data Collectio	n
Class I	Period La	ab Days/Period	Teacher	
4.	Give three example reflexes.	es of things that coul	d slow down your rea	action time or
5.	that person was ab	atches a meter stick v	very slowly when the g the meter stick at 81	r hands are cold. If cm, what is their
	Reaction Time			
	reaction Time_	220		

Bibliography of Images used:
In Good Health Caduceus Symbol: http://www.wpclipart.com/medical/symbols/Caduceus.png
Possible Allergy Alert: http://www.wpclipart.com/medical/sneeze.png