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Nervous System Investigation

Investigation:

Your Task: Design an experiment to illustrate the effect of stimulus on response times.

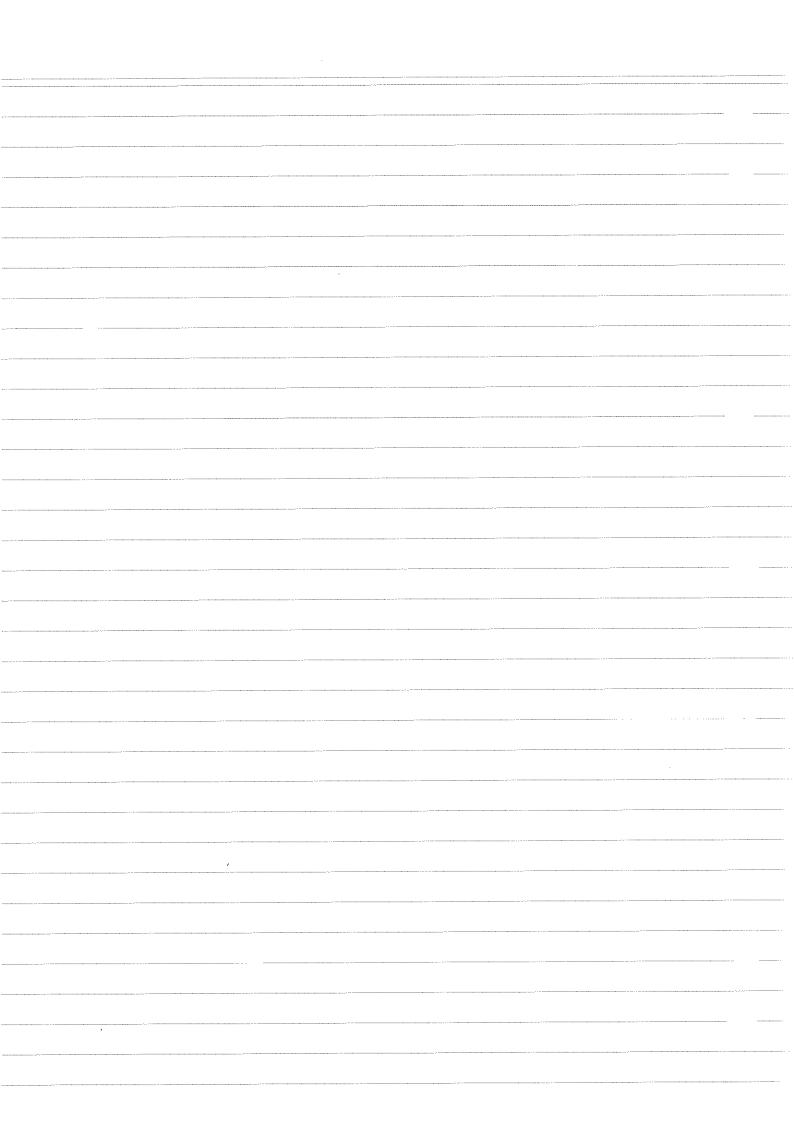
SECTION	COMPONENT	Possible Marks	Mark allocated
PLANNING	Aim:	1	Actions (Co.)
	Variables Independent Variable:	1	and except the systems of the system of th
	Dependent Variable:	1	
	Controlled Variables: at least 5 are listed	5	A
	Prediction: The student states what they thought would happen and why	2	
	Hypothesis: A hypothesis is presented that states the effect of the independent variable on the dependent variable	2	
	Equipment: Listed correctly	1	
	Method: Detailed numbered steps are written. Instructions are clear and can be followed exactly at another time. Variables are clearly controlled. A diagram is used and labelled appropriately that clearly enhances the method	5	
RESULTS	Results: Displayed appropriately. Tables are used observations are adequately documented. Figures written to the same decimal place. Repeats or replicates are used. The mean is shown in the table. Units are used.	5	
	Graphing (if applicable): Results are graphed on the correct axis and the scale is correct. The correct type of graph has been used without any aid from the teacher. Labelling of units is correct and the graph is easy to interpret	5	
CONDUCTING	Practical Application: Safety, behaviour, laboratory skills and application during the investigative process can not be faulted	4	3
DISCUSSION Analysis	The results are summarised in a mature manner and pattern/trends in the results are identified and commented on.	2	
Evaluation	Inconsistencies in the results are identified and explained.	2	
	The experiment is classified as: valid; accurate; reliable. Valid reasons are given for the classification.	3	
	Problems and difficulties within the experimental design are identified and the student describes improvements.	4	
	The results of the experiment have been explained based on sound scientific principles taught in class or by doing extra research.	4	
	The discussion must make sense.	1	
CONCLUSION	Major findings are summarised.	1	
	Statement of whether hypothesis has been supported or not	1	
	TOTAL	50	



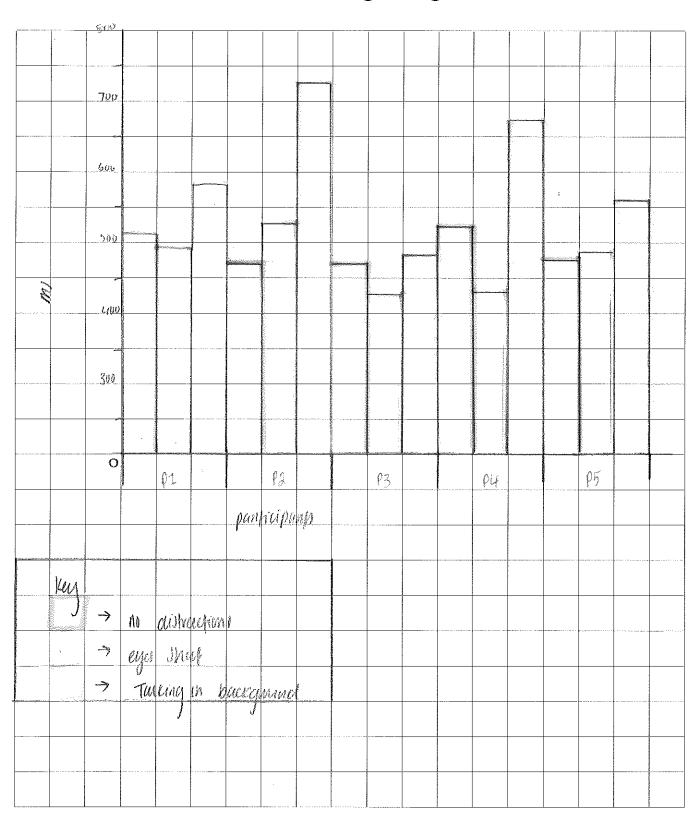
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1 cm Graph Paper



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Investigation > Nervus system

Discussion

From the finding of the remuß given in the tuble, ip clear proving that when there's confraction in like facting, results are higher, proving that it takes a conger fine positionally a response from your bodg.

I inwasiofencies = phone surem sensificity - some purposperap were able to gently fup the surem to acresive results until other struggled to force the surem.

Ani) experiment or classified as vaid as each capagons was done 5 hours with each purhispant to get an average score.

- Mi companing of the investigation were acceptable and comparenerable, meaning if we done appropriately.

I publim): · Keeping purpicipunp fingen between 2-3cm of me table.

- participant struggled to do this so each in order to fix this problem we moved their finger to the comet neight boundaries even time after they paper their finger on the serven.
 - · V Phone screen sensificity
 - phone series when tapped too nard would serve down the page would of altering the app of result.
 - This was resulted by making the puricipants gently tap the screen, not finefally tapping the screen.

> Jound Mientific Principles

- * The result from this investigation have been based on Jouna scientific principles.

 Stimula > response > leftcoper > response
- Lo Jenjuny or cranical neuwns, In this case, crianical neuwns.
- carried to me are along never impure



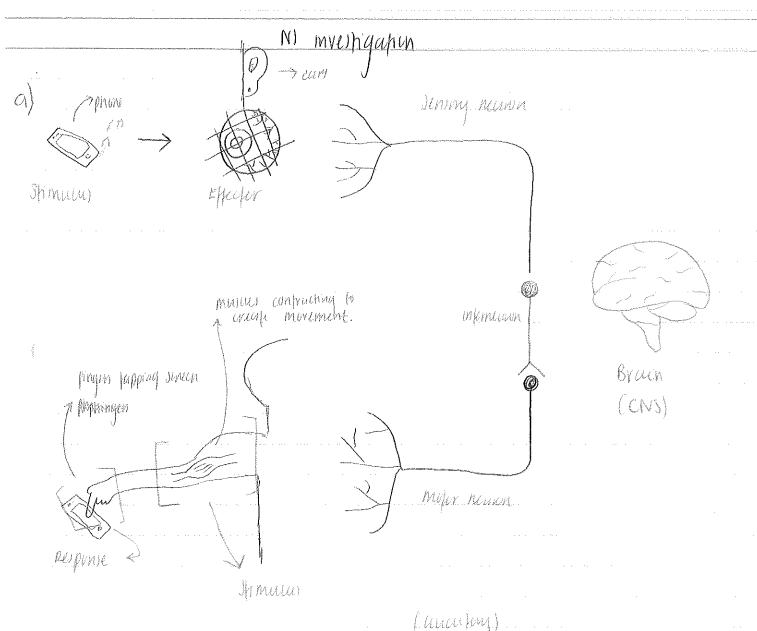
N) investigation

Conclusion

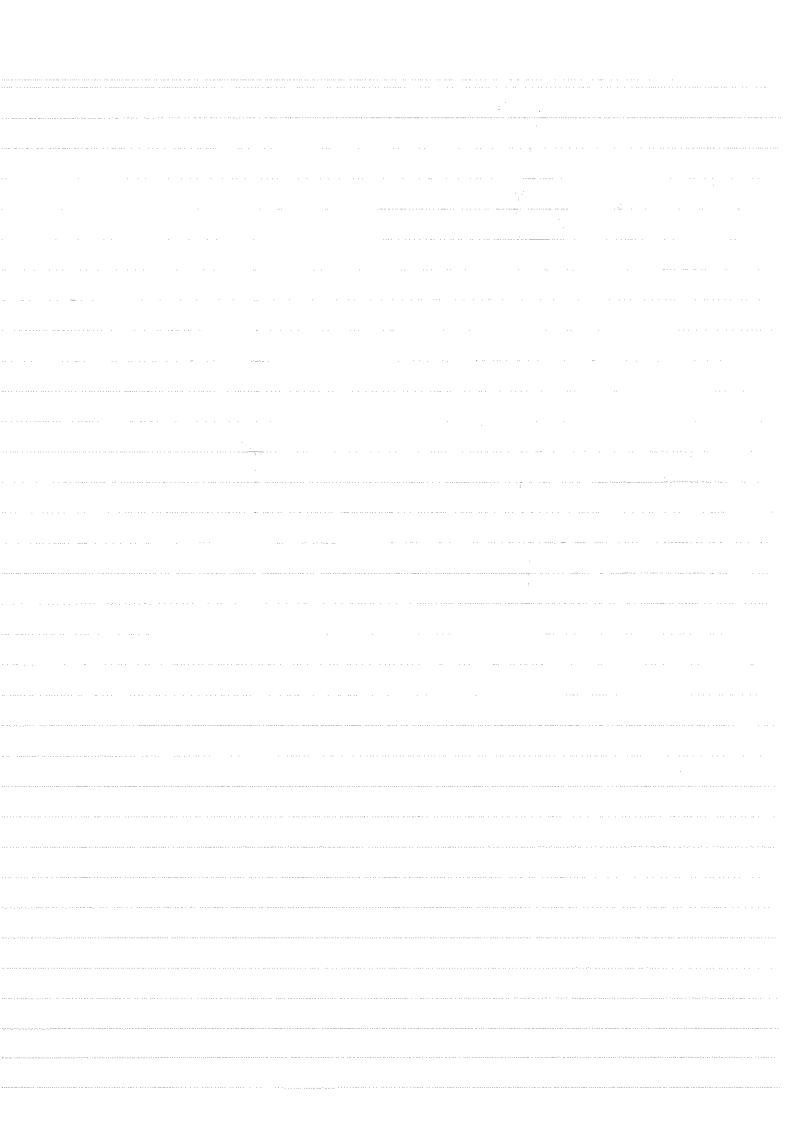
From the results on the fable and graph, finaling from the investigation are evidant that each participant sloved a higher response find when there's talking going on amound them. The results also show that there only 70-80m outperence between having no distractions to having the participant eyes shut.

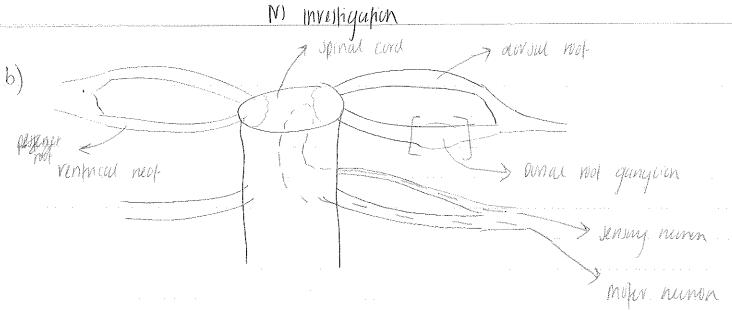
> hypothesi): The hypothesis that reaction times tunbe to sistening for sounces can be decreased due to environmental factors that summend the puritipant the been power force. Can be supported.





NIMER The purplipant heurd the noise, their sensons nearns sent a mesage to the bruin through the CNS to produce a response when in the brain, the misage is converted to make howard which sent never improve away from the CNS. This mustage throwever through the purplipant brain to up demonstrate hand lin the cose right hund to tap the screen. Messages were sent to the paper pump hund and finger to treat movement to touch the screen. There mustages were cornect ever never fibres simpaires. These pathways are the way in which the neuron recicles to the stream of hearing a sound on.





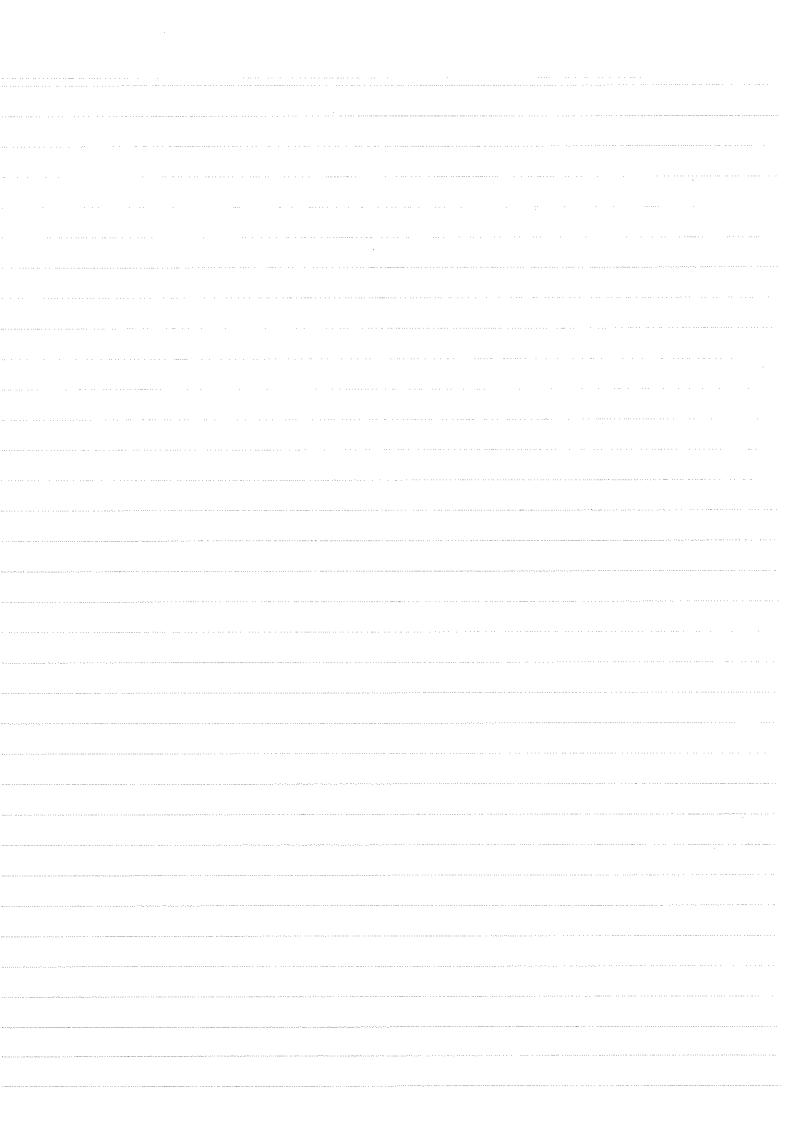
In the reflect to spinal reflex an above, if shows the pulmway in which bother the sensing neuron and major neuron braves into and out of the spinal and. The line coloured in real shows the paper a sensing the number of bearing a noise from the short was sent to the brain to kunimist the mineral corps a major neuron. The motor neuron (in the connecting blee and) shows how the manage is a sent an imposse to the dominant hund to the pure sources.

Maharan Can Maharan Can And Dever Consistent For

Buth pathways or curred in queipen 3 or ana 36 control nervous movement. The spinal reflex are demonstrate how now nerve impulses.

One converted from serving nervous into motor newers and the following. Inside in question as a demonstrate how the stimular espected the response converted to another type and from the point and converted are converted to another type and from the point and converted nemen.

Other of men small of control of movement of three high from each other as one the spinal reflex are convening responsible for converting neural pathways and assumeted with all scheme to stimular of response interesting that one neural pathways and assumeted with all scheme for convenience from the point method of assumeted with all scheme for other productions that one method of tapping the screen was responsible for other productions from one.



Newous Julian Chrespation.

Apolitic parases the neucicus sun board.

According to the fibre fibre.

> Mestages are carried along a nerve fibre. The above augram shows what a nerve fibre looses the Impubly will come in Ma the aron, travel along the aunding, along the now of the runnier, good with the aron ferminal na the sign and grains over onto another here fibre via the synapse.

> Impulses and aways camele away never finner

