Heart Lab

This fun interactive lab will require you to answer some fundamental questions about how different activities affect your heart rate. Remember that your heart beats, so that blood can travel throughout your body, carrying necessary oxygen and nutrients to all of your cells, when you make your hypotheses, keep this information in mind!

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- * Pick 3 different activities to do:
 - *Pick one that you think will increase your heart rate
 - *Pick a second one that you think will decrease your heart rate
 - * Pick a third one that you think will keep your heart rate the same.
- * Fill out the question
 - * The question should read "How does ______, _____, and ______affect your heartrate? (the blanks should be the activities you are going to do.)
- * Fill out the three separate hypotheses for three different activities
 - * The hypothesis should include what activity you will do, for how long, and whether your heart rate will increase, decrease or stay the same because of it.
- * Fill out the experiment for each activity:
 - * It should include what you will do, what materials are needed and the duration of the activity.
 - *Take data from at least 4 people including you.
 - * Average that data
- *Organize your Data into a table from all three experiments.
 - *X-axis should be the activity and the y-axis should be your heart rate.
 - *Fill in the sentences stating how much your heart rate increased or decreased according to your data with each activity.
- * Conclusion:
 - * Fill in the conclusion answering your original question for each experiment. No detail required, just whether your heart rate increased, decreased or stayed the same.

Heart Lab Write-up

Questi	on:				?
Hypot	<u>hesis</u> :				
1)	When we		 for	minutes our heart ret	0
	will	·	101	minutes our neart rat	е
2)	When we				•
		minutes our hea	rt rate will		for
3)					
Experi					
1)	For our first	experiment we will use			
and					
	for	minutes	straight. We will take our	heart rate before, durin	σ
	and after the	experiment by counting	our pulse for 30 seconds		
	beats per mir	nute.			
	Names	Before	During	After	Heart Beats
		(beats per min)	(beats per min)	(beats per min)	Change (After-
					before=
	AVERAGE	XXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXX	
2)	Eor our sage	nd experiment we will u			
2)		nd experiment we will u	se		
	and				
	for	minutes	straight. We will take our	heart rate before, durin	<u> </u>

and after the experiment by counting our pulse for 30 seconds and then doubling it to get beats per minute.

	Names	Before	During	After	Heart Beats
		(beats per min)	(beats per min)	(beats per min)	Change
					(After-
					before=
	AVERAGE	XXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXX	
3)					
					
			·		

Data:

After the tests we found the following: (make sure you label the numbers with the stimulus used.)

Chang	ges in Hear	t Rate with Different Stimuli	
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Average Change in Heart Rate 9 + 2			
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€5 +			
-6			
-7 +			
-8			
-9			
-10 [⊥]			
1)	After	minutes our boom notes	
		minutes our heart rates	an average
	of	_ beats per minute.	
2)	After		
	for	minutes our heart rates	an average
		beats per minute.	
2)		_	
3)			
		·	
Conclu	usion:		
	ata shows:		
			41
1)	w nen a pe	erson	their heart rate will
2)		· · ·	their beart rate will
2)	when a pe	erson	then heart rate will
2)		·	
3)			