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Independent Project

11/21/2023

Title: Oxygen level and Pulse Rate- Boys Vs. Girls

Purpose: To see the change in oxygen level and pulse rate before exercise, after thirty minutes of

exercise, and twenty minutes of rest after exercise.

Hypothesis: I thought that the oxygen level would be lower and the pulse rate higher after

exercise. After rest I thought that the oxygen levels and pulse rates would go back to normal.

Procedure:

1. Use a pulse oximeter to obtain the oxygen level and pulse rate of each participant before

exercise.

2. Have each person perform different exercises for thirty minutes then recheck oxygen

level and pulse rate.

3. Wait twenty minutes after exercise and check to see if there are any changes.

Results:

Participants	O2 before	O2 after 30	O2 20 mins
	exercise	mins of	after exercise
		exercise	
Hailey	98	97	98
Thomas	90	98	97
Emily	99	98	99
Lucas	96	96	95

Participants	PR before	PR after 30	PR 20 mins
	exercise	mins of	after exercise
		exercise	
Hailey	101	143	99
Thomas	98	127	111
Emily	81	108	101
Lucas	97	132	103

Conclusion: My hypothesis for the pulse rates going up after exercise were correct and they started to return to normal twenty minutes after exercise. For the oxygen levels I thought that they would be lower for all participants. Only the girl's oxygen levels went down. One of the boy's oxygen went up and the other stayed the same. After twenty minutes both girl's oxygen went back to normal. For the boy's levels one started to go down and the other one's dropped by one percent. For this experiment I only based my results on boys Vs. girls and the same type and

amount of exercise. Some of the exercises they did were from "Just Dance" and "Would You Rather, Fun Fitness" on YouTube. Factors that could have impacted my results would have been the age, normal activity level, wether or not they consume caffeine, or have behavioral disorders. If I were to do this experiment in the future, I would definitely consider these factors for a more in-depth experiment. I thoroughly enjoyed this project as I got to include my children in it. We all had so much fun exercising together and seeing what their results were.