Name:	Group:	Date:	LAB 55
			EVDEDIMENT

THE EFFECT OF PHYSICAL EFFORT ON RESPIRATORY RHYTHM

STUDENT BOOK Chapter 6, page 172

Goal

Determine the effect of physical effort on respiratory rhythm.

1. What is the independent variable in this lab?

2.	What is the dependent variable in this lab?

Hypothesis

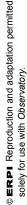
I think that	
because	

Materials

stopwatch or watch indicating seconds

Procedure

- 1. Count the number of breaths taken at rest in 30 seconds. Record the result.
- 2. Run in place for 15 seconds.
- 3. Count the number of breaths taken in 30 seconds. Record the result.
- 4. Run in place for 1 minute.
- 5. Count the number of breaths taken in 30 seconds. Record the result.
- 6. Run in place for 2 minutes.
- 7. Count the number of breaths taken in 30 seconds. Record the result.





Name:	Group:	Date:			
Results					
Record your results in the table below. Give th	ne table a title.				
Title:					
Duration of physical effort (sec)	Num	ber of breaths per 30 secon	ıds		
Analysis of the results					
1. Did your respiratory rhythm vary according	g to physical effor	t? If yes, in what way?			
2. What is the reaction occurring in the cells	at is the reaction occurring in the cells of your body that gives you the energy to run?				
3. What gas that is toxic for the body forms of	during physical eff	fort?			

4. What are the possible sources of error in this lab?

Name:	Group:	Date:
Conclusion		
1. Complete the following sentence:		
During physical effort, respiratory rl	to allow the body to consume	
and expel	<u>_</u> .	
2. Was your hypothesis confirmed or	not? Explain your answe	er.
Application		
During marathons, runners sometimes two hours to cover this distance. Does		
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