8 SCIENCE INVESTIGATION 2016

OBSERVING HEART RATE OR BREATHING RATE

Name:		<u> </u>	Teacher:
	MARKING	KEY	

Plagiarism

You must write in your own words, not copy sentences word for word from another student or another source. Plagiarising = instant zero on assignment and you will have to re-do it.

Assessment policy

Give me a sick note/legitimate reason from parent BEFORE due date = new negotiated due date.

One day late = -20% taken off mark

Two days late = -40% taken off mark

Three days late = mark of zero given

After three days, students are required to attend a detention and are still required to submit the assignment.

Introduction: Your body systems do not work independently. Each one relies on and affects the other. Your group will design and perform an experiment to work out a way to either increase or decrease breathing rate or heart rate and see what happens to the other. You want to find out how breathing rate and heart rate are related.

Some options you could try are:

- Exercise to increase the heart rate.
- A period of slow, deep breathing to reduce the breathing rate.

Hint: you will need to repeat the experiment 2-4 times to obtain an average.

MARKINGKEY

Background research

Is your group investigating heart rate or breathing rate?	
Describe how you will measure heart rate/breathing rate during your investigation. Include the units of measurement you will use to measure heart rate or breathing rate.	(2 marks)
I mark for description	
I mark for unit of measurement.	
Heart rate unit of measurement: bpm (beats perminute)	·····
Breathing rate unit of measurement: breaths per minute	····
Research information to help you reach a hypothesis. For example, if you want to investigate whether exerincreases or decreases breathing rate, you would finformation to help you form an educated prediction of what would occur in your investigation. (Write in summarised dot points – minimum of three).	
Needs to be in own words.	
	
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Method (starting from step one, list the steps that were taken)	(3 marks

	1000 to 100 to 1

- 1 in pencil & using a ruler.
- 1) Includes headings with unit of measurement.
- 1) Includes all data.

1. Is the data you are putting in your graph discrete (each piece of data does not have a relationship with each other, categories being compared are not continuous) or continuous (each piece of data is related to the next)?

Response dépends on data collected.

Appropriate heading () (has bothles) Correcttype of graph () (fordata Glected)
Appropriate Scale/spacing ()

Headings on both axes () Units of measurement included ()

All average data is plotted (complete) (1)

voided next time) emember that a mistake can be avoided with care and an error is a small change to measure voided (parallax error, reading error, instrument error, human reflex etc.)	
voided (parallax error, reading error, instrument error, numan reliex etc.)	(3 marks

onclusion (state the result of the experiment one state whether the hypothesis was supporte	
	(2 marks)

Reference list

Referenced using the APA style shown on the next page.			(1 mark)	
Minimum of two references.			(1 mark)	

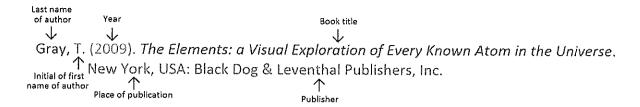
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Assignment is neatly written or typed.			(1 mark)	
Correct spelling and grammar.			(1 mark)	
	/	37		
	/	<i>.</i>		
	Mark as percentage:	%		

Teacher comment: on Seqta

How to reference





Book with two authors

Shermer, M., & Benjamin, A. (2006). Secrets of Mental Math: The Mathemagician's Guide to Lightning Calculation and Amazing Mental Math Tricks. New York, USA: Three Rivers Press.

Book with different editions

Nagle, G., & Cooke, B. (2012). *Geography Study Guide: Oxford Ib Diploma Programme* (2nd ed.). Oxford, UK: Oxford University Press.

Website



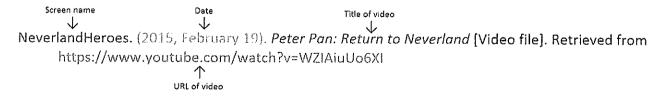
Website with no author (put the title from the top of the website at the front)

Aranmore Catholic College. (2014). Retrieved from http://www.aranmore.wa.edu.au/

Website with no date (put n.d in brackets instead of a year)

The Zadkine Museum. (n.d). Retrieved from http://www.france.fr/en/museums/zadkine-museum.html

Video file



Encyclopaedia or dictionary

