	Date:
	Your Beating Heart
	Introduction
Pur	rpose: To determine how different activities affect your heart rate.
	Iterials: Stopwatch, wristwatch, or clock with a second hand
IVIC	terials: Stopwatch, wristwatch, or clock with a second hand
Pro	ocedure:
1.	Decide on five physical activities (make sure they can be done in the classroom) and write
	them in the "Activity" column of your data table and your partner's data table on page 28.
	Try to select a variety of activities such as sitting, walking, touching your toes, or running in place.
2.	Decide as a pair how much you think each activity will affect your heart rates and record it
	in the "Ranking" column of each data table. Write "1" if you think the activity will affect you
	heart rates the least. Write "5" if you think the activity will affect your heart rates the most.
	Rank the remaining activities as "2," "3," or "4."
3.	As your partner times you with a watch or clock, do the lowest ranked activity for one
	minute, then immediately count your pulse for 15 seconds. Write down your pulse in the
	"Number of Pulses in 15 Seconds" column on the "Your Data" table.
4.	Repeat the experiment for the remaining activities in the order ranked so that the activity
	ranked "5" is performed last. Make sure to rest for one minute between each activity.
	Record the number of pulses in 15 seconds for each activity in the table as indicated.
5.	Multiply each pulse number by 4. Write these numbers down in the "Heart Rate" column of
	the data table. This is your heart rate for each activity.
6.	Switch roles with your partner and time them as they do the experiment. Write down your
	partner's results in the "Partner's Data" table below your own.
7.	Make a bar graph of your data on pages 29—30.
11	

		ating Heart	
	Recording You	ur Observations	
Your Data:			
Activity	Ranking	Number of Pulses in 15 Seconds	Heart Rate (number of beats in one minute)
			× 4
			× 4
			× 4
			× 4
Partner's Data:			
Activity	Ranking	Number of Pulses in 15 Seconds	Heart Rate (number of beats in one minute)
			× 4
			× 4
			× 4
			× 4
			X 4

						Date	e:								
				Your	Be	atin	gН	ear	t						
				Gra	phin	g Yo	ur D	ata							
Us	e this page	e and the 1	following <sub>l</sub>	page to	make	a bar	graph	of the	data	you co	llecte	d on p	age 28	8.	
Your	Beating H	eart (Less	son 8)											(29	9)

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			1	Your	· Be	atir	ıg H	ear	t							
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													41	0)		
(30)									Y	our Bo	eating	Hear	t (Less	son 8)		

	Date:
	Your Beating Heart
	Analysis: Making Sense of the Data
1.	Which activities increased your heart rate the most?
2.	Which activities increased your heart rate the least?
3.	Was the order in which you ranked the activities accurate? Explain.
3.	was the order in which you ranked the detivities decurate. Explain.
4.	What changes did you notice about your heart rate as you became more active?
4.	What thanges did you notice about your near trace as you became more active.
	Why did you have set about any and the set of the set o
5.	Why did your heart rate change when you were more active? Use pages 65—66 of your reference book to help you answer this question.
Your	Beating Heart (Lesson 8)