Central School Science (8)	Name				
Inquiry Scoring Guide:	Date	/	/	Period	
Title: My Heart Rate	Page 1	of 4	Total	Score	

➤ Note: A score of 4 or more for each section (F, D, C, A) is required to MEET.

	6 5 (Exceed)	4 (MEET)	3 <> 2 1 0	Yours:		
<b>(F) Forming the Investigation:</b> Based on observations scientific principles,						
propose questions that can examined through scientific investigation.						
1. Background Information	Provides background, observations and scientific principles to provide a detailed context for this investigation.	Provides background, scientific principles and observations related to the question.	Provides background that is incomplete or only partially relates < > not connected to question.			
2.Question/ Hypothesis	Can be scientifically investigated; shows understanding.	Clear; can be scientifically investigated (will use numbers to compare/answer).	Incomplete < >can not be investigated.			
3. Question/ Hypothesis	Guides the design of an effective or innovative investigation.	Guides the design of an effective investigation	Unclear or <> does not guide the design of an effective investigation.			

Background Rese	earch:	Your pulse i	is your heartbeat rate or hear	t beats per minute.
Gently place 2 finger     Do not use your thur you may feel.     Count the beats for 3		this artery. wn pulse that	Checking your pulse in the carotid artery You can also check your pulse in the carotid artery. This is located by your reck, on either side of your wind peed entire with the carotid artery. Incation, especially if you are older than 68. If you press too hard, you may become lightheaded and fa	
				http://www.webmd.com:
Background or Pr	e-Trial Ob	servations:		
			t rate using both methods. 1	Record here.
			will use and why.	
Question/Hypothe	esis:			

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	Investigation: Desi	ign safe and ethical s		ח			
investigation to gather data to respond to a question/hypothesis.							
	6 5 (Exceed)	4 (MEET)	3 2 <> 1 0	Yours:			
4. Procedures  5. Procedures	Logical procedures in a precise and efficient design that maximize resources which contribute to the outcome  Thoroughly identifies	Logical procedures that can be easily and accurately followed. Tells how to set up, run tests, and what to record. Identifies variables	Partially logical procedures with some or minor errors <> Illogical procedures that are difficult to follow; some errors.  Partially defines				
Organization	variables (including controls); defines a systematic process.	and controls relevant to the procedures.	variables and controls. <>Variables not present or not defined.				
6. Quantity and Quality of Data	Design calls for data of exceptional quality and quantity to address question/ hypothesis	Design calls for appropriate resources and materials to collect relevant data (that will answer question).	Design calls for insufficient resources, materials and techniques to collect relevant data.				
Dependent/R	/Manipulated Variable: esponding Variable: Control (or Control Gered List):						
2							
3							
4							
5 6							
7							
8							

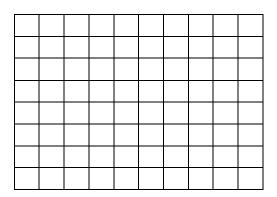
Illustration:

Central School Science (8) Inquiry Scoring Guide: Name Period Page 3 of 4 (C) Collecting and Presenting Data: Collect, organize and display data. Use labeled charts and graphs to present your results. 5 (Exceed) 4 (MEET) 3 <> 2 0 Yours: Collects detailed data Collects data Collects data 7. Collection of consistent with consistent with somewhat consistent Data design. design, that helps with design. <> Data answer the question. inconsistent with design. Records detailed. Records relevant Records relevant data 8. Recording of relevant and (useable) and that is inconsistent or Data annotated data in a accurate data in a disorganized <> Data consistent and irrelevant or consistent and organized matter. organized way. inaccurate. Display incomplete or 9. Display of Displays data to Summarizes and highlight information displays data to disorganized <> Data (Graph and patterns; supports answer question and Display incomplete or or Display) interpretation of to support analysis disorganized. relationships. and interpretation.

Observation Chart: Attach original charts.

 on onart. Attaon onginar onarto.		
Totals		
Averages or Percentages		

Display Graph:



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(A) Analyzing & In conclus	•	A		
	6 5 (Exceed)	4 (MEET)	3 2 <> 1 0	Yours:
10. Results and Analysis Paragraph	Analyzes relevant data, including patterns and trends; relates the results to other scientific information.	Analyzes relevant data with evidence based explanation of the results. Uses numerical summary of data to explain.	Partially analyzes data with a general explanation of the results. <> Inaccurately analyzes data with a simplistic explanation.	
11. Conclusion and Error Review	Clearly communicates conclusions including magnitude and sources of error and possible affect on results.	Clearly communicates conclusions including possible sources of error and possible effect on results.	Communicates general conclusions; sources of error irrelevant or formulaic <> Incomplete conclusions and sources of errors.	
12. Conclusion	Relates detailed results to question or hypothesis. Suggests and outlines further investigations, based on results.	Relates results to question or hypothesis. Suggests relevant revisions or further investigations based on results.	Partially relates results to question. Suggests relevant revisions; no justification<> Results not related to question. Revisions irrelevant.	
Analysis with Evider	nce:			
Error Sources:				
Conclusion Using N	umerical Summary:			
Revisions Or Furthe	r Investigations:			