

BIOLOGY LAB: Homeostasis and Exercise

VARIABLES:

Controlled Variable: The intensity of the exercise.

Independent Variable: The amount of time (in minutes) allotted to perform the exercise (jumping jacks).

Dependent Variable: The increase/decrease in heart rate, breathing rate and perspiration level.

V. RESULTS

A. (TABLE)

The graph below shows a compiled version of the results obtained from the experiment. The left column (highlighted in yellow), is the first trial and in the other divided right column (highlighted in blue) is the second trial.

Time (min)	Heart Rate (beats/min)		Breathing Rate (breaths/min)		Perspiration Level	
	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2
0	156	124	36	44	0	2
2	164	160	52	52	0	2
4	144	120	40	48	0.5	2
6	160	156	52	52	1	2
8	168	180	48	60	1	2
9.5	280	276	60	62	2	2

B. (GRAPH)

There will be three graphs shown below, for each of the graphs, there will already be a display of both of the trials. The three graphs will be constructed according to the three different dependent variables: heart rate, breathing rate, and the perspiration level.

Biology Manual Lab Homeostasis And Exercise

Elaine Nicpon Marieb



Biology Manual Lab Homeostasis And Exercise:

Instructor's Manual for the Laboratory Manual for Starr and Taggart's Biology : The Unity and Diversity of Life and Starr's Biology Concepts and Applications James W. [et. al]. Perry,2002 **More Biology in the Laboratory** Doris R. Helms,1989-08-15 This book is designed to encourage and give direction to the natural urge to inquire about living things what they are and how and why they work as they do One intention in writing this manual was to assure that learning in the laboratory need not depend on expensive elaborately furnished facilities Thus requirements for materials and equipment have been kept to a minimum Pref **Visualizing Human Biology Lab Manual** Jennifer Ellie,2011-08-24 Visualizing Human Biology Lab Manual provides 18 labs specifically designed for the non majors biology student each of which engages students by focusing on the structure and function of each persons own unique body The lab manual includes key experiments with step by step visual guides and more interesting real world topics to connect with students diverse experiences Visuals are used to teach and explain not just illustrate and students with varied learning styles will be engaged The applications of common laboratory techniques in science medicine and everyday life are also explored in each lab topic

AP Biology For Dummies Peter J. Mikulecky,Michelle Rose Gilman,Brian Peterson,2008-06-02 Relax The fact that you re even considering taking the AP Biology exam means you re smart hard working and ambitious All you need is to get up to speed on the exam s topics and themes and take a couple of practice tests to get comfortable with its question formats and time limits That s where AP Biology For Dummies comes in This user friendly and completely reliable guide helps you get the most out of any AP biology class and reviews all of the topics emphasized on the test It also provides two full length practice exams complete with detailed answer explanations and scoring guides This powerful prep guide helps you practice and perfect all of the skills you need to get your best possible score And as a special bonus you ll also get a handy primer to help you prepare for the test taking experience Discover how to Figure out what the questions are actually asking Get a firm grip on all exam topics from molecules and cells to ecology and genetics Boost your knowledge of organisms and populations Become equally comfortable with large concepts and nitty gritty details Maximize your score on multiple choice questions Craft clever responses to free essay questions Identify your strengths and weaknesses Use practice tests to adjust you exam taking strategy Supplemented with handy lists of test taking tips must know terminology and more AP Biology For Dummies helps you make exam day a very good day indeed **Human Anatomy Laboratory Manual with Cat Dissections** Elaine Nicpon Marieb,2001 textformat 02 With 29 exercises covering all body systems a clear engaging writing style and full color illustrations this thoroughly updated edition offers readers everything needed for a successful lab experience For college instructors and students **Starr and Taggart's Biology** James W. Perry,David Morton,Cecie Starr,Joy B. Perry,2002 In

this new edition of a user friendly laboratory manual for an entry level course in biology James W and Joy B Perry U of Wisconsin Fox Valley and David Morton Frostburg State U provide numerous inquiry oriented experiments increased

emphasis on hypothesis generation and testing and new exercises on homeostasis biological macromolecules biotechnology human senses alleopathy and interspecific interactions stream ecology and sampling and animal behavior Each exercise includes objectives an introduction materials procedures and pre and post lab questions Contains color and b w photographs and drawings **Biology** Sylvia S. Mader,2003-07 Aims to help students develop critical and creative reasoning skills in investigating science This manual provides step by step procedures and hands on activities to help students learn the concepts of biology It covers the entire field of general biology *Human Anatomy and Physiology Laboratory Manual* Elaine Nicpon Marieb,1985 **Instructors Lab Manual for Biologylabs On-Line** Robert Desharnais,Michael Palladino,Les Bell,2001 COMBO: Human Biology with Lab Manual Sylvia Mader,2008-07-10 Dr Sylvia Mader s succinct precise writing style Sylvia s writing is what has earned her a reputation as one of the most successful introductory biology textbook authors ever and it is the most compelling feature of this text Updated Boxed Readings Throughout Human Biology features three different types of boxed readings Theses readings have been thoroughly updated by Dr Mader as well as experts in the field throughout the book to remain current A complete set of chapter learning aids includes a listing of chapter concepts brief concept summaries within the chapter boldface key terms summary and objective questions Students value tools within the text that help them grasp the concepts Customize this book through Primis Online This title is tentatively planned to be part of the Primis Online Database www.mhhe.com/primis/online Benefit Professors can customize this book to meet their exact needs and mix and match with other items on Primis Online allowing them maximum choice and flexibility Instructors can choose between two delivery formats custom printed books in black and white or custom eBooks in color Emphasis on Homeostasis Homeostasis is emphasized throughout the text The homeostasis sections at the end of specific chapters and the accompanying homeostasis illustrations have been revised for greater clarity and explain in depth how the body systems work together to maintain homeostasis The laboratory exercise in this manual are coordinated with Human Biology a general biology text that covers the entire field of biology The text emphasizes how we can apply biological knowledge to our own lives and to our relationships with other organisms

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