

Name: _____ Date: _____ Period: _____

Biology: Reaction Time Lab

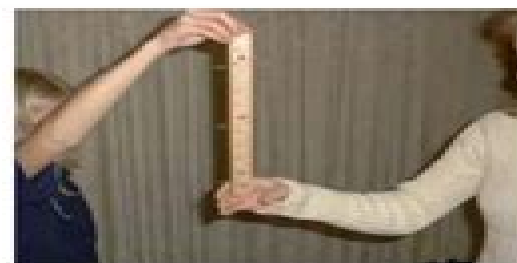
Are you a piano player or a video gamer? Then you might have a quick reaction time that can come in handy while playing sports. Reaction time is the time between a stimulus and your response. The stimulus is processed by your nervous system before you are able to react, and the time lag is your reaction time. Stimuli could be visual, auditory, tactile (touch), olfactory, or gustatory (taste). In this experiment you will be measuring your reaction time when presented with visual stimulation. You will also test the effects of temperature on your reaction time. The only equipment you will need will be a meter stick. Because the distance an object falls is a function of time, you can measure the distance the meter stick drops and use this to calculate your reaction time.

Problem: How does cold temperature affect reaction times?

Hypothesis: _____

Control Group:

1. Have partner #2 hold the ruler by the 30-cm end and dangling the 0-cm end of the ruler so that it is just even with the top of partner #1's thumb and index finger. (see picture)
2. Without any warning, partner #2 releases the ruler and partner #1 tries to catch it as quickly as possible.
3. Record the distance (top of finger) by checking to see how many cm the ruler fell.



Control Data

	1	2	3	4	5
Distance fell (cm)					
Reaction time (seconds)					

average time = _____

Experimental Data

	1	2	3	4	5
Distance fell (cm)					
Reaction time (seconds)					

average time = _____

How to Calculate Your Reaction Times:

We are going to use some physics to calculate how fast you were able to react to the falling ruler. The algorithm to calculate reaction time is $t = \sqrt{2d/a}$

t = reaction time

d = distance ruler fell in meters

a = acceleration due to gravity = 9.8m/s^2

For example, if a student caught the ruler after 14cm, here is how you would calculate the reaction time. Because the acceleration due to gravity is in the unit of "meters/sec²" this means you must convert your centimeter distance into meters. So a ruler falling 14cm would be the same as .14m.

$$t = \sqrt{2 \times .14\text{m} / 9.8\text{m/s}^2}$$

$$t = \sqrt{.28\text{m} / 9.8\text{m/s}^2}$$

$$t = \sqrt{.0285\text{s}^2}$$

$$t = .169\text{s (round to the nearest thousandth)}$$

Calculate your reaction times and fill in the data tables above.

Reaction Time Lab Answers

**Siyuan Chen, Youngjun Cho, Kun
Yu, Laura M. Ferrari, Francois Bremond**

Reaction Time Lab Answers:

Take-Home Physics: 65 High-Impact, Low-Cost Labs Michael Horton, 2009-05-30 **Biology in the Laboratory** Doris R. Helms, Carl W. Helms, Robert J. Kosinski, John C. Cummings, 1997-12-15 Provides a choice of 46 laboratory topics and more than 200 experiments Includes a diversity of instructional approaches including simple guided inquiries more complex experimental designs and original student investigations Report, 1985 **Animal Sonar** Paul E. Nachtigall, Patrick W.B. Moore, 2012-12-06 The first meeting on biosonar that I had the opportunity to attend was held in 1978 on the Island of Jersey in the English Channel That meeting organized by Professor R G Busnel and Dr Jim Fish was my introduction to an exciting and varied group of hard working and dedicated scientists studying animal echolocation They are by nature a very diverse group They tend to publish in different journals and rarely interact despite the fact that they all work on echolocation When they do interact as a group as they did in Frascati Italy in 1966 in Jersey in 1978 and during the meeting reported in this volume the meetings are intense interesting and exciting This volume is a composition of a series of contributed papers written to foster an interdisciplinary understanding of the echolocation systems of animals The echolocation pulse production studies in bats and dolphins have recently been concentrated on the ontogeny of infant pulses other studies with three dimensional computer graphics and x ray computed tomography have concentrated on finally resolving the old controversy concerning the site of dolphin echolocation click production Much has been accomplished on the analysis of bat neural structure and function The intense effort directed toward understanding the structure connections and functional properties of parallel auditory pathways and the parallel and hierarchical processing of information by the mustached bat has led to dramatic breakthroughs in understanding brain function **Falcon's Bend Series Collection (9 books in 1 volume)** Karen Wiesner, Chris Spindler, 2025-01-23 Falcon's Bend is a small sleepy town in Wisconsin that owns more taverns than churches but fills both on the appropriate days Teenagers talk of escape from the one horse town because nothing ever seems to happen But even here in the Heartland police investigators Pete Shasta Danny Vincent and Amber Carfi fight a never ending battle to keep their beloved families and hometown safe and sound Read the entire 9 book series in this one collection *Arctic Underwater Operations* Louis Rey, 2012-12-06 Opening Speech of the ICEDIVE 84 Conference by His Royal Highness Prince Bertil of Sweden I am very pleased to be invited to open the International Conference ICEDIVE 84 dealing with medical and technical problems of diving and related underwater activities in arctic conditions Until recent times the arctic was considered a strange and remote area of minor importance However in a world with diminishing natural resources arctic areas have become a region of global importance because of their enormous resources and strategic position Certain experts believe that more than 50% of oil reserves are sleeping in these northern areas which are cold harsh and hostile to man Operations in arctic areas are extremely difficult expensive and demand high levels of technical scientific and physiological achievement One should recall for example that Alaskan oil investment only became economically viable after

the 1973 1974 price explosion Recent political military troubles in the Gulf have increased interest in the development of polar resources This conference is unique as it is the first time that medical and technical specialists interested in the problem of diving in arctic conditions have met in an international forum Development of the arctic resources is a matter of international urgency and it pleases me that scientists from the USA Canada the USSR Australia and Europe have gathered here in Stockholm to present their experience and to discuss problems in this field

Scientific and Technical Aerospace Reports, 1990

Inquire Within Douglas Llewellyn, 2014 Your definitive guide to inquiry and argument based science updated for today's standards Like most teachers are you struggling to make sense of the many recent shifts in science education especially the NGSS Luckily Doug Llewellyn is here to guide you every step along the way His two big aims with this new edition of Inquire Within To help you engage students in activities and explorations that draw on their big questions then build students capacity to defend their claims Always striking a balance between the why and the how this third edition models what the new reform efforts looks like in day to day practice New features include how to Teach argumentation a key standards requirement and 21st century career skill Adapt existing science curricula for inquiry based learning to meet today's standards Effectively differentiate scientific instruction for multiple intelligences to drive student achievement Improve students language arts analytic and communication skills through inquiry based instruction Utilize the many inquiry based lesson plans Develop your own inquiry based mindset and grow professionally You'll quickly discover for yourself that this third edition of Inquire Within stands on its own as your single best resource for keeping pace with science reform in the classroom Llewellyn's model of teaching and his rich array of practical examples can help every teacher and student to experiences that clearly illustrate what scientists and engineers do This is certainly a guide for the next generation of great teachers Juliana Texley President Elect National Science Teachers Association Llewellyn's Inquire Within provides strategies to support our efforts and infuse the components of the Next Generation Science Standards in our instruction through inquiry It should be at the elbow of every teacher interested in understanding inquiry and meeting the challenge Linda Froschauer Past President National Science Teachers Association

How To Write in Psychology John R. Beech, 2008-10-13 Through the use of clearly defined instructions and examples How to Write in Psychology is a concise and comprehensive guide for the well prepared student on the principles of writing essays and research papers for psychology Presents everything the well prepared student needs to know about the principles and practice of writing for psychology Compares and contrasts the different writing requirements and techniques for essays and research reports in psychology Offers advice on constructing figures and producing properly formatted graphs and tables Includes exercises to improve grammar style and critical awareness Provides checklists tips for getting started and examples of a properly written essay and lab report

Social Robotics Oskar Palinko, Leon Bodenhagen, John-John Cabibihan, Kerstin Fischer, Selma Šabanović, Katie Winkle, Laxmidhar Behera, Shuzhi Sam Ge, Dimitrios Chrysostomou, Wanyue Jiang, Hongsheng He, 2025-03-24

The 3 volume set LNAI 15561 15563 constitutes the refereed proceedings of the 16th International Conference on Social Robotics ICSR AI 2024 held in Odense Denmark during October 23 26 2024 The 109 full papers and 19 short papers included in the proceedings were carefully reviewed and selected from 182 submissions The theme of this year s conference was Empowering Humanity The Tole of Social and Collaborative Robotics in Shaping Our Future The contributions focus on social robotics and AI across the domains of the visual and performing arts including design music live performance and interactive installations

Recognizing the State of Emotion, Cognition and Action from Physiological and Behavioural Signals Siyuan Chen,Youngjun Cho,Kun Yu,Laura M. Ferrari,Francois Bremond,2022-09-13 Human Factors Engineering Bibliographic Series ,1960

Study Guide for Psychology in Everyday Life David G. Myers,Richard O. Straub,2008-11-28 Human Factors and Cognitive Ergonomics in Advanced Industrial Human-Robot Interaction Luca Gualtieri,Federico Fraboni,Erik A. Billing,Peter Thorvald,Patricia Helen Rosen,2025-03-13 Advanced collaborative robotics will be one of the most promising technologies in future industry e g in manufacturing logistics or construction Human robot interaction and collaboration will be crucial for enhancing the operator s work conditions and wellbeing as well as production performance In that regard human factors with a special emphasis on cognitive ergonomics are fundamental to implementing safe fluent and efficient collaborative applications Associated challenges and opportunities as well as design recommendations for interactive robotic systems must be considered likewise The general target of the present Research Topic is to contribute to the expansion of knowledge in this field promoting research focused on the study of human factors and cognitive ergonomics in user centered and collaborative applications in industrial settings In particular it aims to enhance the benefits related to human robot interaction by limiting as much as possible the negative effects on the user s safety and wellbeing that can arise from an improper design and management of collaborative applications as well as optimizing production system performances

Learning Foreign Languages in Primary School María del Pilar García Mayo,2017-06-16 This book presents research on the learning of foreign languages by children aged 6 12 years old in primary school settings The collection provides a significant and important contribution to this often overlooked domain and aims to provide research based evidence that might help to inform and develop pedagogical practice Topics covered in the chapters include the influence of learner characteristics on word retrieval explicit second language learning and language awareness meaning construction narrative oral development conversational interaction and how it relates to individual variables first language use feedback on written production intercultural awareness raising and feedback on diagnostic assessment It will be of interest to undergraduate and graduate students researchers teachers and stakeholders who are interested in research on how children learn a second language at primary school **The First Half Second** Haluk Ögmen,Bruno G. Breitmeyer,2006-03-03 Empirical and theoretical foundations for the study of the temporal dynamics of mechanisms contributing to unconscious and conscious processing of visual information from computational psychological neuropsychological and neurophysiological perspectives

Chocolate Dipped Death Sammi Carter, 2006 When poisoned bon bons lead to the demise of an obnoxious trophy wife and the town troublemaker during Divinity's Tenth Annual Confectionary Competition candy shop owner Abby Shaw must find a sticky fingered killer bent on sweet revenge Original *ApplyKit's PLAN Exam Prep* ApplyKit Experts, 2014-08-20 The PLAN is designed to prepare students for the ACT an alternative to the SAT that many college admission offices now accept The test is centered on improving students education before high school graduation by highlighting which courses they should continue to take This is ApplyKit's PLAN Exam Prep This book has been re formatted for Kindle optimization and edited and updated for the newest version of the PLAN This study guide provides the following A full length diagnostic exam A review of EVERY topic and concept tested on the exam Multiple practice questions answers and explanations for every topic Test tips to help improve your score on the PLAN We don't just cover one subject or just provide general test prep and some practice questions This is a complete review of every topic that is most commonly covered on the PLAN exam We walk through each topic from Math and English to Reading and Science reviewing how to answer these types of questions and then walking you through example questions that are aligned with the PLAN If you are serious about preparing for the PLAN then this is the eBook you are looking for Every topic covered Detailed walk through of example questions Over 250 pages of test prep and concept review specifically for the PLAN Exam Applying to college can be a nightmare Every year hundreds of students do not get in to their top choice school simply because they did not get all of the right documents in at the right time Even more miss out on financial aid and scholarship opportunities for the same reason Don't miss out on your dream school or on financial resources Don't get overwhelmed with the plethora of college application documents Use ApplyKit.com where we manage the entire process for you ApplyKit is a FREE online and mobile platform that helps students and parents manage the entire college application process We have helped tens of thousands of students through the application process from beginning to end We want to be your guide through this most important decision and stressful process **Pharmacological and Biophysical Agents and Behavior** Ernest Furchtgott, 2013-09-03 Pharmacological and Biophysical Agents and Behavior is a compendium of papers that discusses the effects of radiations drugs or other similar agents on human behavior This collection is a reference guide to the analysis of behavioral effects of other agents such as those produced by radiation hypoxia or thermal stress One paper reviews the effects of material or corpuscular radiations and electromagnetic radiations that even low doses occurring during the prenatal stage can result in permanent behavioral deficits Another paper notes that any hazards resulting from the increasing use of microwave generating devices should be investigated as the possibility of such subtle hazards can affect learning emotional and personality behaviors One paper analyzes the chronic effects of thermal stress on behavior as well as those of convulsants strychnine and general stimulants caffeine The book also reviews the effects of sympathomimetic amines on emotional behavior sleep activity food intake and temperature regulation This compendium can prove beneficial for pharmacologists psychiatrists psychologists students and professors in related

disciplines **Acute and Emergent Events in Sleep Disorders** Sudhansu Chokroverty, Pradeep Sahota, 2011-01-27

America is a 24/7 lifestyle. This makes sleep especially disruptions in sleep a pressing concern for many Americans. According to the National Sleep Foundation (NSF), approximately 40 million Americans suffer from chronic sleep disorders, and an estimated 20-30 million others experience sleep-related problems. Chronic sleep disorders may also lead to psychiatric disorders such as depression and schizophrenia. Moreover, neurological disorders such as seizures, strokes, Parkinson's, etc., and medical disorders such as asthma or arrhythmia also affect the quality of sleep. Americans receive Acute and Emergent Events in Sleep Disorders, which creates awareness for the management of disorders that occur during sleep. Chokroverty and Sahota bring greater awareness to the treatment of sleep disorders as well as treatments of neurological, medical, and psychiatric disorders. The book has six different sections covering a wide range of topics dealing with how to treat and manage these events. For example, when to prescribe CPAP (Continuous Positive Airway Pressure) machines for sleep apnea patients whose risks are doubled for stroke or death as compared to those without the disorder. Another segment discusses treatment of Restless Legs Syndrome (RLS), a movement disorder which is amplified when trying to rest. Managing depression, which affects patients' sleep cycles, is analyzed as well as its relation to sleep deprivation and insomnia. Considerations for sleep disorders in children such as Sudden Infant Death Syndrome (SIDS) are also presented. This book serves as an effective tool for neurologists, clinical neuroscientists, residents, and fellows.

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web the melt during fractional crystallization is $c_a a c_o a f d a 1 c a b c o b f d b 1$ so that $c a c b a c a c b o f d a d b$ what is important is the difference between $d a d b$ and for incompatible elements $d a d b$ will always be small so that the ratio change in the residual melt during

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