

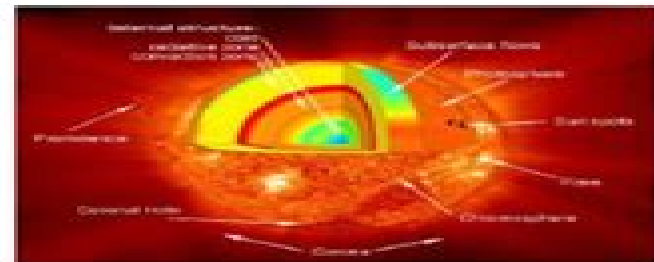
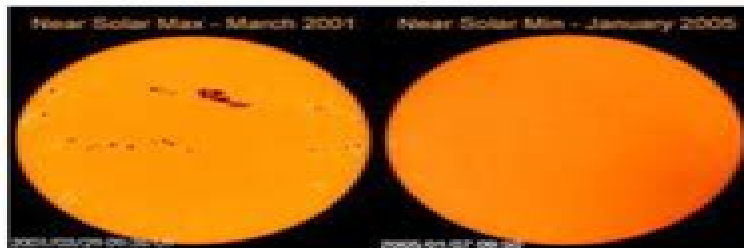
**Introduction:** Sunspots are darker, cooler areas on the surface of the sun in a region called the photosphere. The photosphere has a temperature of 5,800 degrees Kelvin. Sunspots have temperatures of about 3,800 degrees K. They look dark only in comparison with the brighter and hotter regions of the photosphere around them. Sunspots can be very large, up to 50,000 kilometers in diameter. They are caused by interactions with the Sun's magnetic field. A sunspot is somewhat like the cap on a soda bottle: shake it up, and you can generate a big eruption. Sunspots occur over regions of intense magnetic activity, and when that energy is released, solar flares and big storms called coronal mass ejections erupt from sunspots.

**Vocabulary:**

- Cyclic change: \_\_\_\_\_
- Extrapolate: \_\_\_\_\_
- Sunspot maxima: \_\_\_\_\_
- Sunspot minima: \_\_\_\_\_
- Coronal Mass Ejection: \_\_\_\_\_
- Maunder minimum: \_\_\_\_\_
- Little Ice Age: \_\_\_\_\_
- Solar Storm: \_\_\_\_\_

**Procedure:**

1. Construct a graph on page 3 to represent the sunspot data 1908-Present using the data on page 2. Follow these guidelines:
  - A. Give your graph a title
  - B. Neatly label the X-axis and the Y-axis and choose an appropriate scale.
  - C. Use a PENCIL and a ruler to connect each point as you plot.
  - D. After you completed the graph, highlight each maximum in pink and each minimum in blue.
  - E. Complete the KEY
  - F. Examine the pattern
2. Answer the Graph Analysis and the Discussion Questions
3. Type up the 3 Paragraph conclusion



# Sunspot Lab Answers

**ML Yell**



# Sunspot Lab Answers

**Believe it Or Not** Sharon Harrison, Pietro Battiston, 2022 Models with sunspot equilibria have long been a topic of interest among economists. It then became an interesting question to ask whether there is empirical support for their existence. One approach to answer this question is through lab experiments. Such equilibria have been successfully reproduced in the lab but little is known about their determinants and most importantly about their convergence dynamics: when and how do individuals assign a coordination role to signals which are publicly known to have no fundamental value. In order to answer this question we run a laboratory experiment in which individuals connected through a network directly observe the actions of their neighbors as well as aggregated information. By manipulating both the type of information available and the structure of the network we show that general information about other players' behavior hinders coordination while information specifically related to the sunspot enhances it. [Physical Science Lab Manual Answer Key](#), 2006-02-23 Help students explore and understand the world around them. With the full color Physical Science text students learn the properties of matter, elements, compounds, electricity, and sound and light. Students reading significantly below grade level gain practice in working with data and sharpen their abilities to infer, classify, and theorize. Lexile Level 840 Reading Level 3-4 Interest Level 6-12 [Scientific Practice](#) Jed Z. Buchwald, 1995-11 Most recent work on the nature of experiment in physics has focused on big science, the large scale research addressed in Andrew Pickering's *Constructing Quarks* and Peter Galison's *How Experiments End*. This book examines small scale experiment in physics in particular the relation between theory and practice. The contributors focus on interactions among the people, materials, and ideas involved in experiments, factors that have been relatively neglected in science studies. The first half of the book is primarily philosophical with contributions from Andrew Pickering, Peter Galison, Hans Radder, Brian Baigrie, and Yves Gingras. Among the issues they address are the resources deployed by theoreticians and experimenters, the boundaries that constrain theory and practice, the limits of objectivity, the reproducibility of results, and the intentions of researchers. The second half is devoted to historical case studies in the practice of physics from the early nineteenth to the early twentieth century. These chapters address failed as well as successful experimental work ranging from Victorian astronomy through Hertz's investigation of cathode rays to Trouton's attempt to harness the ether. Contributors to this section are Jed Z. Buchwald, Giora Hon, Margaret Morrison, Simon Schaffer, and Andrew Warwick. With a lucid introduction by Ian Hacking and original articles by noted scholars in the history and philosophy of science, this book is poised to become a significant source on the nature of small scale experiment in physics. **Astronomy** John W. Wilson, 1996-03 *Physics Briefs*, 1992 **Fuel for Thought** Steve Metz, 2011 The concept of energy is central to all the science disciplines, seamlessly connecting science, technology, and mathematics. For high school and upper middle school teachers, this compendium comprises inquiry based activities, lesson plans, and case

studies designed to help teach increased awareness of energy environmental concepts and the related issues **Glencoe Science** McGraw-Hill Staff,2001-08 **The Rocket Lab** Michael G. Smith,2023-05-15 The Rocket Lab Maurice Zucrow Purdue University and America's Race to Space focuses on the golden era of space exploration between 1946 and 1966 specifically the life and times of Purdue University's Dr Maurice J Zucrow a pioneering teacher and researcher in aerospace engineering Zucrow taught America's first university course in jet and rocket propulsion wrote the field's first textbook and established the country's first educational Rocket Lab He was part of a small circle of innovators who transformed Purdue into the country's largest engineering university which became a cradle of astronauts Taking a chronological and thematic approach The Rocket Lab weaves between the local and national drawing in rival universities especially Harvard MIT Princeton and Caltech Also covered is Zucrow's role in the national project system of research and development through World War II and the Cold War At Aerojet he was one of the country's original project engineers dedicated to scientific technical expertise and the stepwise approach He made vanguard power plant contributions to the Northrop Flying Wing as well as the Corporal Nike and Atlas missiles among others Zucrow's work in propulsion helped to improve the country's arsenal of ballistic missiles and space launchers and as a teacher he educated the first generation of aerospace engineers This book elevates Zucrow and the central role he played in getting the United States to space **Hands-On Science Mysteries for Grades 3 - 6** James Robert Taris,Louis James Taris,2006-08-18 In Hands On Science Mysteries for Grades 3 6 the authors connect science to real world situations by investigating actual mysteries and phenomena such as the strange heads on Easter Island the ghost ship Mary Celeste and the Dancing Stones of Death Valley The labs are designed to encourage the development of science inquiry in which students will observe take notes make diagrams interpret data and arrive at solutions and include extensions for further investigation **Bulletin of the Atomic Scientists** ,1961-05 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world *Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science* ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction *8th Grade English Language Arts Assessment Practice Tests* Joan Levy,Norman Levy,2016-01-01 A practice test booklet that contains 4 full length practice tests patterned after the actual NYS 8th Grade English Common Core Assessment tests Used to prepare high school students for the New York State Assessment Exams in 8th Grade English **American Journal of Physics** ,1984 Archival journal targeted toward advanced level physics and physics education with its focus on the teaching and cultural aspects of physics Cycles ,1985 **Solar**

**Drivers of Interplanetary and Terrestrial Disturbances** National Solar Observatory/Sacramento Peak. International Workshop,1996    **Technical Publications Announcements with Indexes** United States. National Aeronautics and Space Administration,1962    **Nuclear Science Abstracts** ,1975-07    **Scientific and Technical Aerospace Reports** ,1991    *Merrill Earth Science* Ralph M. Feather,1995    **LSAT Logical Reasoning** Manhattan Prep,2016-08-02 Offering a new take on the LSAT logical reasoning section Manhattan Prep s LSAT Logical Reasoning is a must have resource for any student preparing to take the exam Using Manhattan Prep s expert strategies this book will teach you how to untangle the web of LSAT logical reasoning questions confidently and efficiently LSAT Logical Reasoning encourages a streamlined method to engage and improve your natural critical thinking skills Beginning with an effective approach to reading arguments and identifying answers LSAT Logical Reasoning trains you to see through the clutter and recognize the core of an argument It also arms you with the tools to pick apart the answer choices offering in depth explanations for every answer both correct and incorrect leading to a complex understanding of this subtle section Each chapter in LSAT Logical Reasoning uses real LSAT questions in drills and practice sets with explanations that take you inside the mind of an LSAT expert as they work through the problem Additional practice and resources are available online through the Manhattan Prep website Used by itself or with other Manhattan Prep materials LSAT Logical Reasoning will push you to your top score

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