

Lab 5 Star Spectra

Vocabulary: absorption spectrum, binary star, blueshift, Cepheid variable, emission spectrum, giant star, nebula, redshift, spectrum, star

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. What happens when light goes through a prism? It is bent, or refracted, by the angles and plane faces of the prism and each wavelength of light is refracted by a slightly different amount.

This band of colors is called a **spectrum**.

2. A rainbow is an example of a spectrum. What is the sequence of colors in a rainbow?

Red, orange, yellow, blue, indigo, violet

Gizmo Warm-up

The interior of a **star** produces a continuous spectrum of light, like a rainbow. Cooler gases in the outer layers of the star absorb certain wavelengths of light, causing dark lines to appear in the spectrum. The resulting **absorption spectrum** can tell astronomers a great deal about the star.

1. On the *Star Spectra* Gizmo, turn on **Show labels**. Select **star 1** to see its absorption spectrum.

How many lines do you see in the spectrum? five



2. Drag the **Hydrogen** spectrum next to the **Star spectrum** so that the edges line up. Do some of the lines on the two spectra match up? Yes four lines on the spectrum do line up
3. Drag the **Helium** spectrum next to the **Star spectrum**. Do some lines match? Yes some do match
4. Try out the other available spectra. Do any others have lines that match? No
5. Which elements have contributed to the spectrum of **star 1**? Hydrogen and helium

Note: The elements in a star's spectrum do not necessarily reflect what the star is made of. The absorption spectrum is mostly determined by the surface temperature of the star.

Answers For Virtual Astronomy Lab

Gearhart, Deb



Answers For Virtual Astronomy Lab:

The Solar System Michael A. Seeds, 2007 Helps students use astronomy to understand science and use science to understand what we are Fascinating and engaging this text illustrates the scientific method and guides students to answer these fundamental questions What are we And how do we know

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Computer Support for Collaborative Learning Gerry Stahl, 2002 Proceedings of CSCL 2002 meeting in Boulder Colorado January 7 11 2002

Laboratory Exercises in Introductory Astronomy Charles Morse Huffer, Richard Spencer Marasso, 1967

HCI International 2019 - Posters Constantine Stephanidis, 2019-07-10 The three volume set CCIS 1032 CCIS 1033 and CCIS 1034 contains the extended abstracts of the posters presented during the 21st International Conference on Human Computer Interaction HCII 2019 which took place in Orlando Florida in July 2019 The total of 1274 papers and 209 posters included in the 35 HCII 2019 proceedings volumes was carefully reviewed and selected from 5029 submissions The 208 papers presented in these three volumes are organized in topical sections as follows Part I design development and evaluation methods and technique multimodal Interaction security and trust accessibility and universal access design and user experience case studies Part II interacting with games human robot interaction AI and machine learning in HCI physiological measuring object motion and activity recognition virtual and augmented reality intelligent interactive environments Part III new trends in social media HCI in business learning technologies HCI in transport and autonomous driving HCI for health and well being

Cases on Distance Delivery and Learning Outcomes: Emerging Trends and Programs Gearhart, Deb, 2009-10-31 This book provides practitioners in the field of distance education a case book that is a valuable reference of best practices in the field Provided by publisher

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and more than 1550 posters displayed The Proceedings of the 6 Symposia have been published in the Proceedings of the IAU Symposia Series and the proceedings of the Joint Discussions and Special Sessions feature in IAU Highlights of Astronomy 14 Together with those 7 volumes these Transactions cover the entire General Assembly In addition to the scientific program the XXVI General Assembly hosted the regular Business Meetings of the EC the 12 Divisions 40 Commissions and 75 Working Groups This volume records the organizational and administrative business of the XXVI General Assembly and the status of the IAU membership

Astronomy Michael A. Seeds, 2005 NSTA Guide to Planning School Science Facilities LaMoine L. Motz, James T. Biehle, Sandra S. West, 2007 NSTA Guide to Planning School Science Facilities will help science teachers district coordinators school administrators boards of education and schoolhouse architects understand differences and develop science facilities that will serve students for years to come Highlights of Astronomy International Astronomical Union, 2006 Vol 1 contain papers etc from 13th General Assembly Extragalactic Gas at Low Redshift John S. Mulchaey, John T. Stocke, 2002 Annotation Proceedings of an April 2002 workshop held at the Carnegie Observatories in Pasadena California bringing together some 70 international specialists to discuss low redshift QSO absorbers and their relationship to galaxies Forty two contributions are arranged in sections on low absorber properties and absorber galaxy relationships simulations HI studies high velocity clouds galactic winds the intergalactic medium the ionizing background radiation and astronomical tools A sampling of topics the evolution of neutral gas in the universe as traced by damped Lyman alpha systems surveying the whole sky for extragalactic neutral hydrogen mapping metal enriched high velocity clouds to very low HI column densities galactic superwinds circa 2001 and using X ray shadowing to detect intergalactic baryons Indexed by author only Annotation c Book News Inc Portland OR booknews.com The Messenger, 2008 *Voyages to the Planets* Andrew Fraknoi, David Morrison, Sidney C. Wolff, 2004 VOYAGES TO THE PLANETS provides students and professors with the ideal combination of authors and experience It is written by an award winning astronomy educator Fraknoi and two distinguished research scientists Morrison at NASA and Wolff at NOAO This author team combines the latest science with classroom tested teaching strategies and a student friendly approach Through unique group activities and a focus on astronomy as a human endeavor the authors engage and involve students helping them both understand and enjoy astronomy The market leading technology package includes access to InfoTrac College Edition free and TheSky tm Student Edition CD ROM free as well as an optional package with the RedShift tm College Edition CD ROM including animations along with an accompanying workbook *Best Educational Internet Sites for Science and Math Students* Victoria Chase, Heidi Frederick, Karen Hollingsworth, Edward W. Knappman, 1998 **Teaching with Technology** David G. Brown, 2000 Teaching with Technology is a gold mine with contributors from institutions who are members of the Learning Technology Consortium LTC of specific ways in which instructors may use technology to enhance teaching and learning **Amateur-professional Partnerships in Astronomy** John R. Percy, Joseph B. Wilson, 2000 **Astronomy Now**, 2008 *Astronomy for the*

Developing World (IAU XXVI GA SPS5) International Astronomical Union. General Assembly, 2007-10 Addresses astronomy education and research in developing countries for astronomers promoting and supporting astronomy around the world

Announcer, 2004 **E-Pin Virtual Astronomy Labs** Rachel Lee, GUIDRY, 2004-06 The Virtual Astronomy Labs are an online interactive way for students to learn Focusing on twenty of the most important concepts in astronomy the labs offer students hands on exercises that complement the topics in the text

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