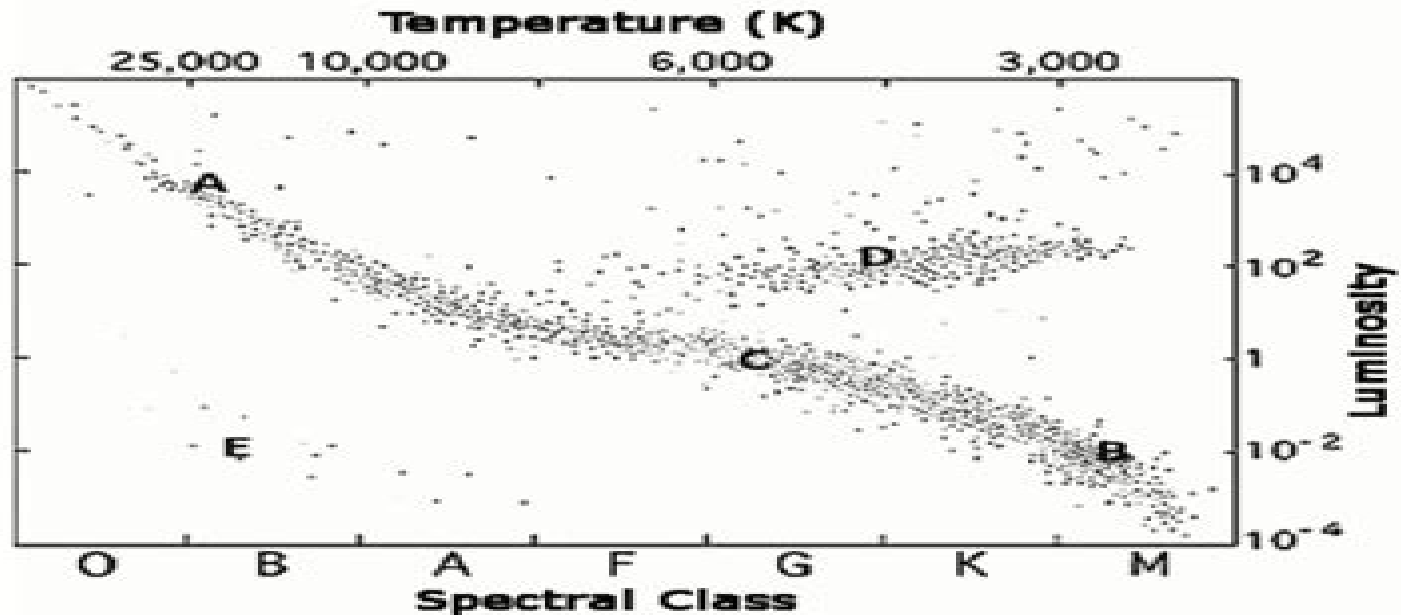


Astronomy 110 Lab Exercise: Hertzsprung-Russell Diagram



In the above HR diagram, the luminosity is given in units of the Sun's luminosity. In other words, 1 means the same luminosity as the Sun; 10^2 means 100 times the luminosity of the Sun (or in short, 100 solar luminosities), and so on.

Part 1: Temperature versus Luminosity of Stars

1. In the HR diagram above, imagine that there is a star at each labeled position A-E. Of these stars, which star has the greatest luminosity?
2. Which stars have roughly the same temperature? Which stars have roughly the same luminosity?
4. Do stars with the same temperature necessarily have the same luminosity? If so, explain how; if not, give a counterexample from the labeled stars in the diagram.
- 5a. Which of the labeled stars is the most like our Sun? (Recall the Sun's surface temperature $T=5800\text{K}$.)
- 5b. What would be the approximate luminosity of a main sequence star with temperature 12,000 K? What spectral type would this star have?
6. Which star(s) above would appear reddish in color? Which star(s) would appear bluish? Explain.
7. The diagonal band of stars that star A, B, and C lie on is called the *main sequence*. For a star on the

Hertzprung Russell Diagram Lab Answers

Karin Nielsen-Saines



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Astronomy Media Workbook Michael C. LoPresto, Jeffrey O. Bennett, 2007 This revised and expanded popular media workbook is provided with all new copies of Bennett's book and includes a wide selection of in depth activities using resources from The Astronomy Place and Voyager SkyGazer College Edition v3.6 planetarium software These thought provoking projects are suitable for the lab or as assignable homework assignments

Scientific and Technical Aerospace Reports, 1990 **Energy Research Abstracts**, 1980 *Astronomy Media Workbook for The Cosmic Perspective, The Essential Cosmic Perspective* Michael C. LoPresto, 2005 Book includes CD and Student Access Kit for the Astronomy Place Research at the Kellogg Radiation Laboratory, 1920s-1960s Olivia Weaver Walling, 2005 Nuclear Science Abstracts, 1967-11 **Magnetic Fields Across the Hertzsprung-Russell Diagram** Gautier Mathys, Sami K. Solanki, Dayal T. Wickramasinghe, 2001 *New Trends in Astronomy Teaching* L. Gouguenheim, D. McNally, J. R. Percy, 1998-10 How do students learn astronomy How can the World Wide Web be used to teach And how do planetariums help with educating the public These are just some of the timely questions addressed in this stimulating review of new trends in the teaching of astronomy Based on an international meeting hosted by the University of London and the Open University IAU Colloquium 162 this volume presents articles by experts from around the world The proceedings of the first IAU Colloquium 105 The Teaching of Astronomy edited by Percy and Pasachoff were first published in 1990 and soon became established as the definitive resource for astronomy teachers Astronomy education has advanced enormously in the intervening 7 years and this sequel will inspire and encourage teachers of astronomy at all levels and provide them with wealth of ideas and experience on which to build

A Selected Listing of NASA Scientific and Technical Reports for ... United States. National Aeronautics and Space Administration. Scientific and Technical Information Division, 1966 **A Selected Listing of NASA Scientific and Technical Reports for 1966** United States. National Aeronautics and Space Administration. Scientific and Technical Information Division, 1967

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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Hertzsprung Russell Diagram Lab Answers**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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