

Star Emission Spectrum Worksheet

14 points

The following pages contain information about the spectra of specific elements and the spectra of 5 stars. Worksheet 1 contains the spectra for 7 elements commonly found in stars. These spectra do not show colors, however light at the 4000 angstroms (4.0×10^{-7} m) end of the spectrum is violet and light at the 6800 angstroms (6.8×10^{-7} m) end of the spectrum is red. Worksheet 2 shows the spectra from 5 different stars. Obviously, stars are made of a variety of elements. Use these worksheets to answer the following questions.

10 points

1. What elements are in each star? Check the box if that element is present.

	Hydrogen	Iron	Neon	Sodium	Lithium	Magnesium	Helium
Star 1							
Star 2							
Star 3							
Star 4							
Star 5							

1 point

2. What elements are in every star?

1 point

3. What stars contain all seven elements?

1 point

4. How is it possible for scientists to know the composition of stars without traveling to the star?

1 point

5. True or false, every gas has a unique set of spectral lines that help identify the gas.

Star Spectrum Answers Sheet

Albert A Gayle

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Star Spectrum Answers Sheet:

Project STAR, 2001 **Physics Competitions**, 2001 **Physics with Answers** Andrew R. King, Oded Regev, 1997-05-28 This book contains 500 problems covering all of introductory physics along with clear step by step solutions to each problem *Star of the Magi*, 1899 *Astronomy* Dale A. Ostlie, 2022 Since humans first looked up at the stars astronomy has had a particular ability to stir the imagination and challenge the thinking of scientists and non scientists alike *Astronomy The Human Quest for Understanding* is an introductory astronomy textbook specifically designed to relate to non science majors across a wide variety of disciplines nurture their curiosity and develop vital science based critical thinking skills This textbook provides an introduction to how science operates in practice and what makes it so successful in uncovering nature s secrets Given that the study of astronomy dates back thousands of years it is the ideal subject for tracing the development of the physical sciences and how our evolving understanding of nature has influenced and been influenced by mathematics philosophy religion geography politics and more This historical approach also illustrates how wrong turns have been taken and how the inherent self correcting nature of science through constant verification and the falsifiability of truly scientific theories ultimately leads us back to a more productive path in our quest for understanding This approach also points out why as a broadly educated citizenry students of all disciplines must understand how scientists arrive at conclusions and how science and technology have become central features of modern society In discussing this fascinating and beautiful universe of which we are a part it is necessary to illustrate the fundamental role that mathematics plays in decoding nature s mysteries Unlike other similar textbooks some basic mathematics is integrated naturally into the text together with interpretive language and supplemented with numerous examples additional tutorials are provided on the book s companion website *Astronomy The Human Quest for Understanding* leads the reader down the path to our present day understanding of our Solar System stars galaxies and the beginning and evolution of our universe along with profound questions still to be answered in this ancient yet rapidly changing field **Test Item Folio** Paul Leroy Dressel, Clarence Herbert Nelson, 1956 *Earth Science* Jeffrey C. Callister, 2006 **National 5 Physics with Answers, Second Edition** Arthur Baillie, 2018-08-06 Exam Board SQA Level National 5 Subject Physics First Teaching September 2017 First Exam Summer 2018 This second edition has been comprehensively updated to reflect the changes made by the SQA to the National 5 Course Specification with chapters on the following areas of physics Electricity Properties of matter Waves Radiation Dynamics and Space Covers the new specification with all the new topics in the SQA examinations Provides thorough exam preparation with practice exercises Organised to make it easy to plan manage and monitor student progress *The Handy Weather Answer Book* Kevin Hile, 2009-08-01 Hurricanes and Tornadoes Climate Change Global Warming Droughts and so much more Answers over 1 000 questions about the basic elements of weather the latest advances in meteorology the science of forecasting and all types of weather phenomena Weather We all talk about it some more expertly than others With

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Scientific American ,1881 T.P.'s Weekly ,1910 English Mechanic and Mirror of Science and Art ,1925

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