

Teacher Guide: Star Spectra



Learning Objectives

Students will...

- Determine the elements that are present in the spectrum of a star.
- Use this information to infer the approximate temperature of the star.
- Classify stars.
- Use other aspects of spectra to find nebulae, variable stars, binary stars, giant stars, and other unusual stars.



Vocabulary

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



Lesson Overview

Astronomers spend their time gathering information about objects that are trillions of kilometers away. One of the most useful ways to investigate a star is to look at its spectrum—the combination of colors found in its light. Every star has a unique spectrum that yields clues about the star's surface temperature, motion, and composition.

The *Star Spectra Gizmo™* allows students to examine simplified stellar spectra. After determining which elements are present in the spectrum, students can use the Harvard Classification Scheme to classify the star and estimate its surface temperature.

The Student Exploration sheet contains two activities:

- **Activity A** – Students find the elements present in stellar spectra, then classify the stars.
- **Activity B** – Students observe unusual characteristics in stellar spectra and match these traits to unusual stars.



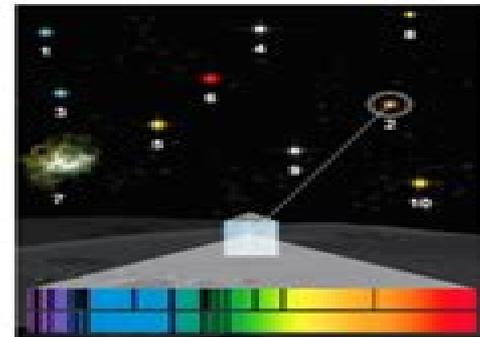
Suggested Lesson Sequence

1. Pre-Gizmo activity: Flame tests

(🕒 10 – 20 minutes)

When heated, any element will release light in specific colors called an *emission spectrum*. You can observe these spectra by heating substances in the flame of a lab burner. First, obtain a variety of salts such as sodium chloride (NaCl), lithium chloride (LiCl), potassium chloride (KCl), calcium chloride (CaCl_2), barium chloride (BaCl_2), copper sulfate (CuSO_4), and lead nitrate ($\text{Pb}(\text{NO}_3)_2$). You will also need a Bunsen burner, clean wire loops (wet Q-tips work as well), and student spectrosopes (optional).

To perform a flame test, first light the Bunsen burner. Dip a wire loop in water, then in the test substance. Place the wire over the hottest part of the flame to see a bright color. Have students observe each flame both with the naked eye and through a spectroscpe.



Do the spectral lines match up?

Explore Learning Star Spectra Part 2

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NICEM Update of Nonbook Media National Information Center for Educational Media, 1981

The Review of Popular Astronomy, 1919

Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.), National Institute of Standards and Technology (U.S.). Information Resources and Services Division, 1994

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

The Monthly Evening Sky Map, 1917

Advancing Variable Star Astronomy Thomas R. Williams, Michael Saladyga, 2011-05-26 Founded in 1911 the AAVSO boasts over 1200 members and observers and is the world's largest non profit organization dedicated to variable star observation This timely book marks the AAVSO's centennial year presenting an authoritative and accurate history of this important association Writing in an engaging and accessible style the authors move chronologically through five eras of the AAVSO discussing the evolution of its structure and purpose Throughout the text the main focus is on the thousands of individuals whose contributions have made the AAVSO's progress possible Describing a century of interaction between amateur and professional astronomers the authors celebrate the collaborative relationships that have existed over the years As the definitive history of the first hundred years of the AAVSO this text has broad appeal and will be of interest to amateur and professional astronomers as well as historians and sociologists of science in general

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