

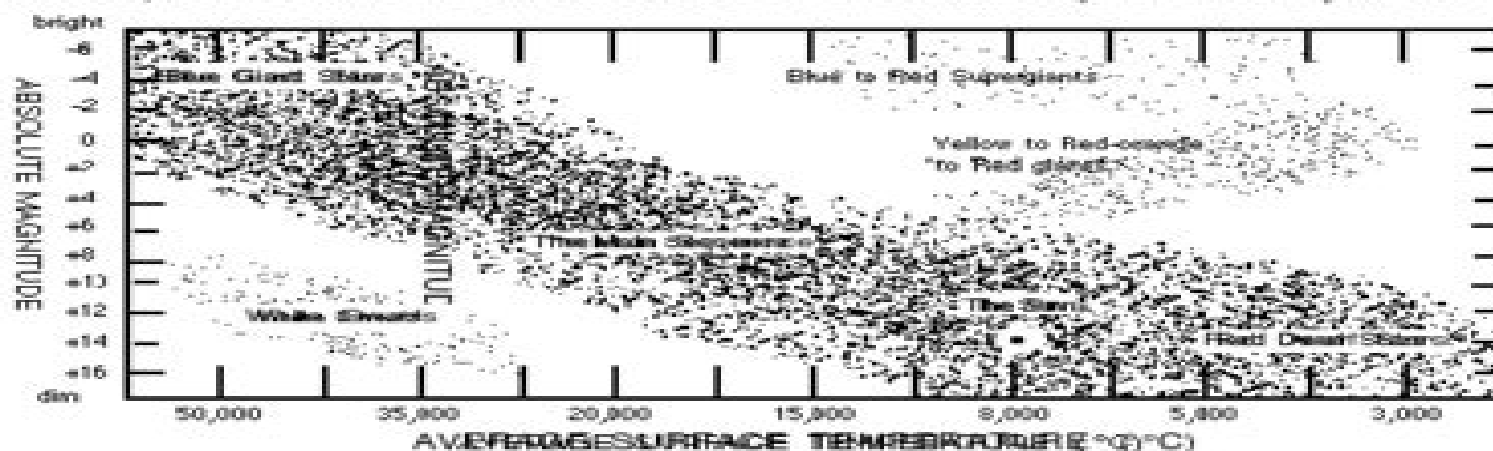


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## The Hertzsprung-Russell Diagram

The H-R diagram is actually a graph that illustrates the relationship between the average surface temperature of stars and their absolute magnitude (how bright they would appear if they were all the same distance away from the viewer). The brightness of stars is affected not only by temperature but also by size. The brightest stars would be those that are large and hot. Those that are the least bright, or luminous, would be small and cool. The color of a star is determined by its surface temperature.



Using the Hertzsprung-Russell diagram above, answer the following questions.

1. What is the approximate surface temperature of our sun?
2. Which stars are the brightest? Why?
3. What is the absolute magnitude of the sun?
4. What is the color of the stars which have the lowest surface temperature?
5. Most of the stars shown in the diagram are classified as which type of star?
6. Which type of star is our sun?
7. What is the relationship between temperature and brightness for stars in the main sequence?
8. What group of stars are very hot but not very luminous?
9. What characteristics of a star are compared in the HR diagram?
10. How can red giants be classified as very bright when they are not very hot?

# Hertzprung Russell Diagram Middle School Lesson Plan

**Molly Rose**



## **Hertzsprung Russell Diagram Middle School Lesson Plan:**

The Top Books of the Year Hertzprung Russell Diagram Middle School Lesson Plan The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have captivated audiences this year.

Hertzprung Russell Diagram Middle School Lesson Plan : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

<https://staging.conocer.cide.edu/book/detail/Documents/Five%20Similarities%20Between%20Nsfas%20And%20Student%20Loans.pdf>

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