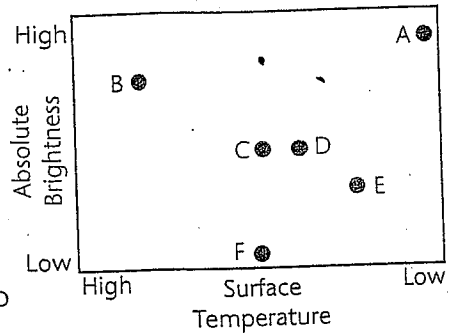


Characteristics of Stars

Understanding Main Ideas

Use the H-R diagram on the right to answer questions 1-3. Write your answers in the spaces provided.



1. Which star has the greatest brightness?
2. Which star has the hottest surface?
3. Stars C and D have the same absolute brightness. What would you need to know to determine their apparent brightnesses?

spectrograph

constellation

light-year

parallax

apparent brightness

absolute brightness

Hertzsprung-Russell
diagram

main sequence

7. A star's brightness as if it were a standard distance from Earth is its _____.
8. A device that breaks light into colors and produces an image is a(n) _____.
9. A unit that is often used to measure distances between stars is a(n) _____.
10. The region of the Hertzsprung-Russell diagram that most stars fall within is the _____.
11. A graph of stars showing surface temperature on the x -axis and absolute brightness on the y -axis is a(n) _____.
12. _____ is often used to determine the distance to nearby stars.
13. A _____ is a(n) imaginary pattern of stars.
14. The brightness of a star as seen from Earth is its _____.