

HR Diagram – Student Guide

Background Information

Work through the background sections on Spectral Classification, Luminosity, and the Hertzsprung-Russell Diagram. Then complete the following questions related to the background information.

Question 1: The table below summarizes the relationship between spectral type, temperature, and color for stars. Note that the surface temperature of the stars in the table increases.

Star	Surface Temperature K	Spectral Type	Color
Betelgeuse	3600	M2	Red
Arcturus	4,300	K5	Orange
Sun	5800	G2	Yellow
Procyon A	6500	F5	Yellow-White
Sirius A	10,500	A1	White
Rigel A	11,000	A6	Blue-White
Delta Orionis	30000	O9	Blue

Question 2: Complete the following table related to stellar luminosities in solar units using the equation $L \propto R^2 T^4$.

Radius ($R_{\odot}$)	Temperature ($T_{\odot}$)	Luminosity ($L_{\odot}$)
1	1	1
1	2	16
3	1	9
1	1/2	0.0625

Hr Diagram Student Guide Answers Spectral

M Walker



Hr Diagram Student Guide Answers Spectral:

Unveiling the Power of Verbal Beauty: An Mental Sojourn through **Hr Diagram Student Guide Answers Spectral**

In a global inundated with monitors and the cacophony of fast transmission, the profound power and mental resonance of verbal beauty usually fade in to obscurity, eclipsed by the continuous onslaught of noise and distractions. Yet, located within the lyrical pages of **Hr Diagram Student Guide Answers Spectral**, a interesting work of fictional splendor that impulses with natural thoughts, lies an memorable journey waiting to be embarked upon. Penned by way of a virtuoso wordsmith, this interesting opus manuals readers on a mental odyssey, lightly revealing the latent possible and profound impact stuck within the elaborate web of language. Within the heart-wrenching expanse of this evocative evaluation, we can embark upon an introspective exploration of the book is main themes, dissect their captivating publishing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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