

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

Guillaume Favre

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

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