

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

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AQA A-level Year 2 Physics Student Guide: Sections 9 and 12 Jeremy Pollard, 2017-02-06 Exam Board AQA Level A level Subject Physics First Teaching September 2016 First Exam June 2017 Written by experienced author Jeremy Pollard this Student Guide for Physics Identifies the key content you need to know with a concise summary of topics examined in the A level specifications Enables you to measure your understanding with exam tips and knowledge check questions with answers at the end of the guide Helps you to improve your exam technique with sample answers to exam style questions Develops your independent learning skills with content you can use for further study and research **Highlights of Astronomy,**

Volume 11A Johannes Andersen, 1999-01-31 Since 1967 the main scientific events of the General Assemblies of the International Astronomical Union have been published in the separate series **Highlights of Astronomy** The present Volume 11 presents the major scientific presentations made at the XXIIIrd General Assembly August 18 30 1997 in Kyoto Japan The two volumes 11A B contain the text of the three Invited Discourses as well as the proceedings or extended summaries of the 21 Joint Discussions and two Special Sessions held during the General Assembly **Highlights of Astronomy** International Astronomical Union, 1998 Vol 1 contain papers etc from 13th General Assembly *Nuclear Science Abstracts* ,1975

Scientific and Technical Aerospace Reports ,1995

Astronomy and Astrophysics Monthly Index ,1980

International Aerospace Abstracts ,1993

INIS Atomindex ,1985

Government Reports Annual Index ,1987

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Properties of Materials Harvey Thayne Johnson, 1971

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