

**Chapter 23**

Use with Section 3

**ENRICHMENT****● Evolution of Stars****Classifying Stars**

Use the H-R diagram in your textbook to classify each of the stars listed in the table as white dwarf, main sequence, giant, or supergiant stars. Also identify the color of the star based on its spectral class.

Spectral classifications	
Class	Color
O	blue
B	bluish-white
A	white
F	yellowish-white
G	yellow
K	orange
M	red

Star	Surface temperature, K	Absolute magnitude	Type of star	Spectral color
Hadar	21 000	-5		
Sirius A	10 400	+1.4		
Sirius B	10 700	+11.6		
Arcturus	4 500	-0.3		
Antares	2 900	-4.5		
Altair	8 000	+2.2		
Ross	2 800	+13.3		
Beta Pegasi	2 000	-1.4		
Capella	5 900	-0.7		
Bernard's	2 600	+13.2		
Betelgeuse	2 700	-5.6		
Mintaka	21 000	-5.1		