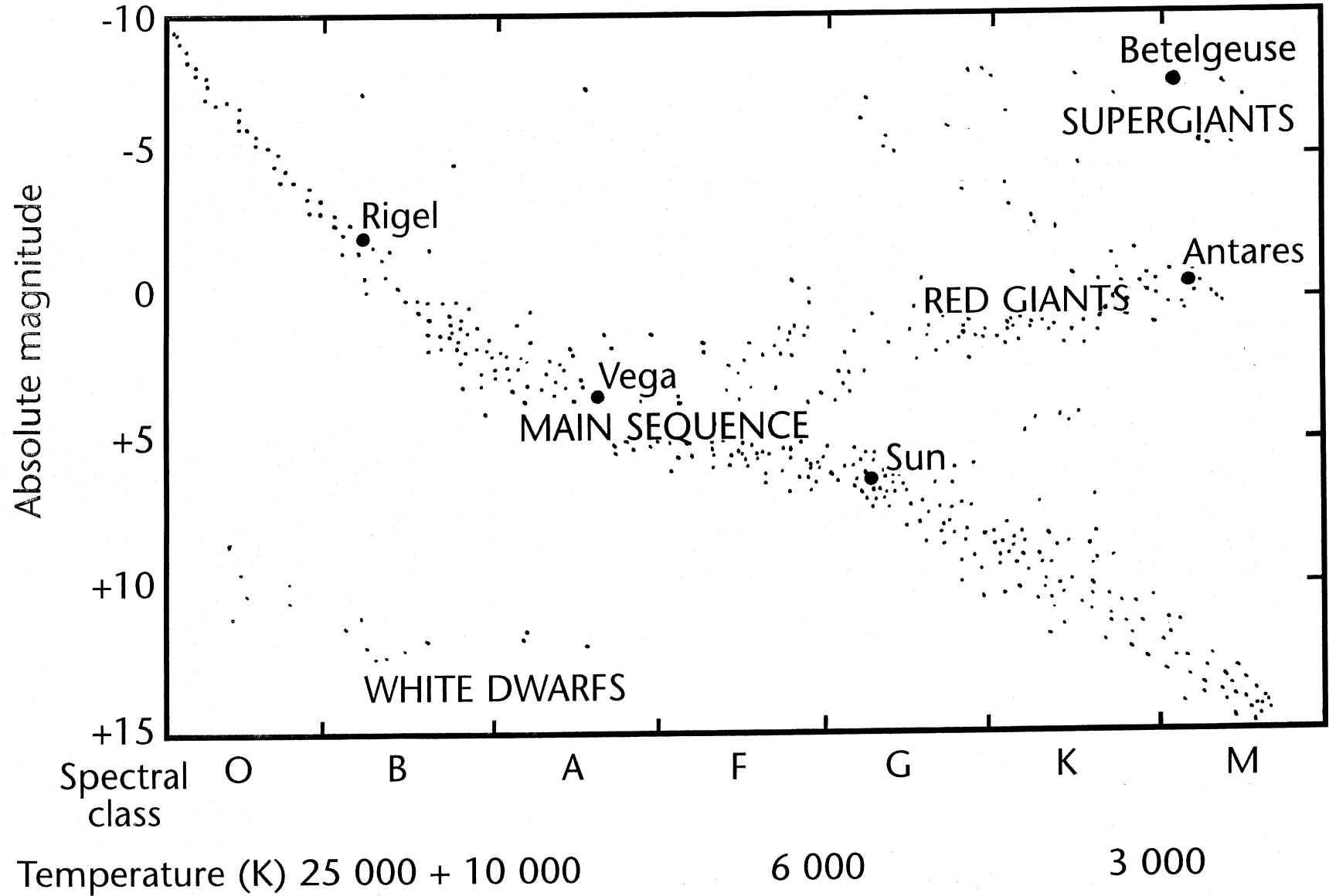


H-R DIAGRAM



TRANSPARENCY 47

Stars and Galaxies

H-R DIAGRAM

1. What kind of stars are most stars considered to be?

2. Which star is brighter, one with an absolute magnitude of -10 or one with an absolute magnitude of $+10$? Explain.

3. For most stars, how are a star's temperature and absolute magnitude related?

4. What colors are associated with each spectral class?

O. _____

G. _____

B. _____

K. _____

A. _____

M. _____

F. _____

5. In which spectral class is our sun? What color is it?

6. Are all white dwarfs white stars? Why or why not?

7. Which is hotter—our sun or a supergiant? Which is brighter in terms of absolute magnitude?
