

Checklist

What you should know

After studying this subtopic, you should be able to:

- Describe star stability in terms of the equilibrium between gravitational forces and radiation pressure.
- Describe fusion in stars and calculate the energy released by fusion.
- Explain the conditions required for fusion in stars.
- Describe the main regions of the HR diagram.
- Recall the different properties of stars based on their region on the HR diagram.
- Outline the evolution of different types of stars.
- Calculate the radius of a star from surface temperature and luminosity.
- Explain the measuring system of parsecs, and convert between parsecs (pc), light years (ly) and astronomical units (AU).
- Describe the method of stellar parallax and its advantages and disadvantages.

