

Section 14.1 The Properties of Stars – Answer Key

1) What are 4 types of electromagnetic waves?

Some types of electromagnetic waves are radio waves, microwaves, infrared rays, ultraviolet rays and x rays.

2) Define electromagnetic spectrum.

The electromagnetic spectrum is the arrangement by wavelength of the different kinds of electromagnetic radiation.

3) Define luminosity

Luminosity is the measure of the total amount of energy a star radiates per second.

4) Which colour star is the hottest? **A blue coloured star is the hottest.**

5) Define binary stars. **Binary stars are two single stars that orbit one another.**

6) Define solar mass.

Solar mass is the basis of comparison for measuring the mass of a star. The Sun has a solar mass of one.

7) What is the solar mass of our sun?

The solar mass of our sun is one.

8) What does a star's colour indicate?

A star's colour indicates its surface temperature.

9) Why might a cooler star appear to be brighter than a hotter star?

A cooler star might appear to be brighter than a hotter star if it is larger or closer.