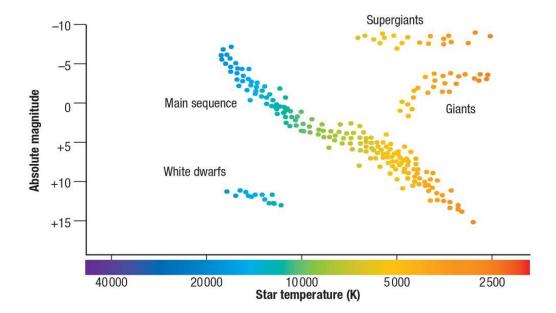
Literacy support worksheet 6.2 The Earth is in the Milky Way

Pages 142-143

Stellar magnitudes, parallax and distances

1	What are stars?
2	Name three features that can make stars different from each other.
3	What two elements are stars made of?
	What two demonio are stare made or:
4	Use the following word list to fill in the blanks in the paragraph below.
	Word list: close, positive, dimmer
	The apparent magnitude scale is a measure of how bright a star 'appears' to be. The more
	(and the less negative) the number, the the star. A
	star may appear to be quite bright because it is to the Earth; it may not
	actually be very bright.
5	The colour of a star is an indicator of its surface temperature. Complete the following sentences.
	a 'The hotter the surface temperature of the star, the the colour.'
	b 'The colder the surface temperature of the star, the the colour.'
6	What is one method of measuring stars using colour?

- 7 How long does it take for the light from the Sun to reach:
 - a the Earth?
 - b Proxima Centauri?
- 8 Our Sun has a surface temperature of about 5700 K and an absolute magnitude of 4.77. Use this information to show where our Sun would be positioned on the Hertzsprun–Russell diagram below.



Word detective - True or false

9 Read the statement and circle whether it is true or false.

а	Gases reacting at the core of a star provide energy to the star.	T or F
b	Nuclear fusion occurs when two atomic nuclei are repelled.	T or F
С	The Sun is the brightest object in the sky.	T or F
d	Luminosity refers to how bright a star appears to be.	T or F
е	Light-years measure the distance of stars from the Sun.	T or F
f	Proxima Centauri is the next closest star to the Earth, after the Sun.	T or F
g	Every night our stars and planets move across the night sky.	T or F