



Name: _____

Class: _____

Student book questions

6.4 The galaxies are moving apart

Pages 146–147

Check your learning 6.4

Remember and understand

1 How would you know you were looking at an absorption spectrum?

Apply and analyse

2 How are the emission and absorption spectra for helium similar?

3 How does red-shifted light show that a galaxy is moving away from us?

4 Figure 6.16 shows the spectra observed from three stars. Star A is at a fixed distance from the Earth, whereas stars B and C are moving.

a What produces the dark lines on each spectrum?

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b Which star, B or C, is moving towards the Earth? Explain your answer.

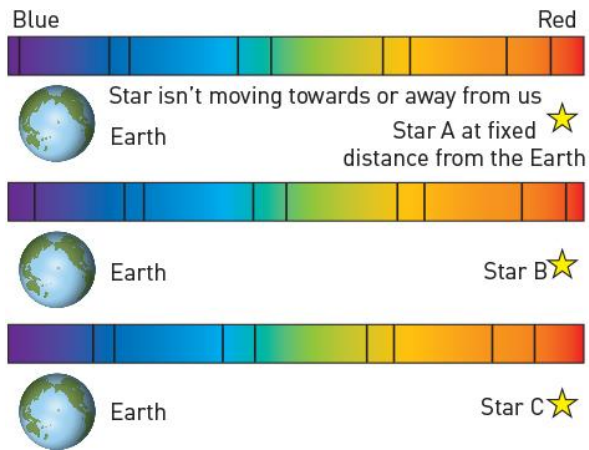


Figure 6.16