

6 Stars and the Universe – Part 2 — Answers

Answers

Work through these after trying the questions yourself.

6.1 Hydrogen and helium.

6.2 Nuclear fusion (hydrogen joining to make helium).

6.3 A group of billions of stars held together by gravity.

6.4 A red giant.

6.5 Redshift is the shift of a galaxy's light to a longer wavelength (towards red); it tells us the galaxy is moving away from us, so the Universe is expanding.

6.6 The Big Bang theory.

6.7 (a) The galaxy is moving away from us (and a larger redshift means it moves away faster); (b) it is further away than a galaxy with a small redshift.