

# 6 Stars and the Universe — Part 2 — Answers

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## Answers

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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.