

Answers to Section Review page 45

- 7. a. 373 K
- b. 1058 K
- c. 273 K
- d. 236 K

- 8. a. 0°C
- b. 927°C
- c. -273°C
- d. -173°C

- 9. Breaking an egg is a physical change because the chemical nature of the egg has not been affected.
- 10. Cooking an egg is an example of a chemical change because the chemical properties of the egg are changed by the transfer of energy as heat.
- 11. Energy is transferred as heat from the hand, which is at a higher temperature, to the snowball, which is at a lower temperature.
- 12. Reducing the kinetic energy of particles to zero is impossible.
- 13. The temperature of the substance will not increase if it is undergoing a change of state.