

Mark schemes

- 1.** (a) LiOH (aq) *this order* 1
- H₂ (g) 1
- (b) **C** 1
- (c) **A and D** 1
- (d) point x at -10 °C 1
- point • at +150 °C 1
- (e) substance **B** will not reach its boiling point of 190 °C 1
- because the boiling point of water is only 100 °C 1
- (f) there is too much substance **B** to melt instantly.
allow answers based on thermal conductivity or temperature gradient from the wall of the test tube to the thermometer 1
- [9]
- 2.** (a) balls are far apart from each other 1
- balls move randomly 1
- (b) solid 1
- gas 1
- [4]