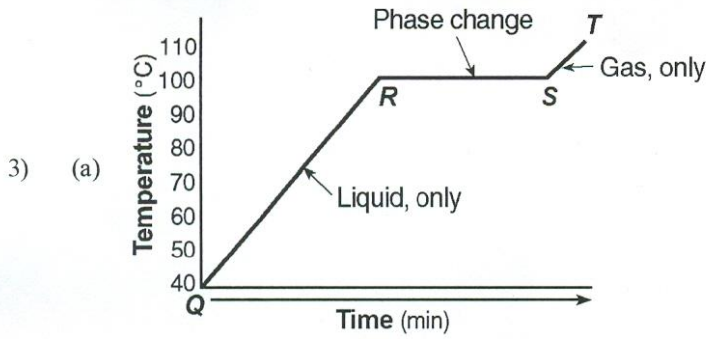


- 1) C    2) C



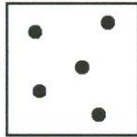
Answers may vary.

SAMPLE ANSWERS:

- (b) The water molecules acquire more kinetic energy. OR Heat is converted to kinetic energy of the water molecules. OR The water molecules speed up or increase their relative motion.;
- (c) The potential energy of the water molecules increases. OR The water molecules change from the liquid phase to the gas phase. OR There is less attraction between the H<sub>2</sub>O molecules.

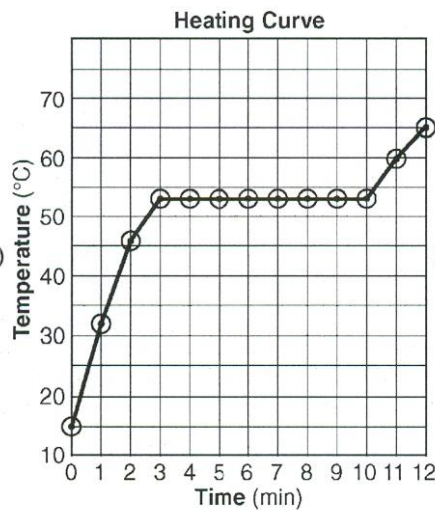
- 4) Answers may vary.

SAMPLE ANSWER:



- 5) Answers may vary.

SAMPLE ANSWERS: (a-b)



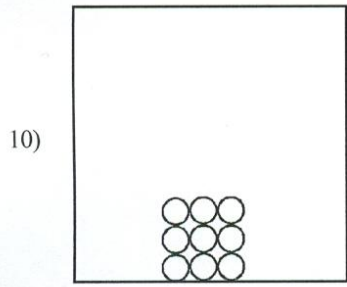
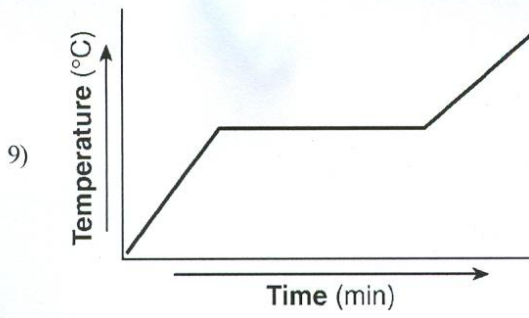
- (c) Answers may vary.

SAMPLE ANSWERS: The temperature of the substance is increasing. OR temperature increases OR positive slope for this section of graph

- 6) 53°C

- 7) 50.°C (±2°C)

- 8) SAMPLE ANSWERS: The average kinetic energy of the particles remains the same. OR KE remains constant. OR no change



11)  $120.^\circ\text{C} (\pm 2^\circ\text{C})$

12)  $3.0 \text{ min} (\pm 0.2 \text{ min})$

13)  $30. \text{ kJ} (\pm 3 \text{ kJ})$