

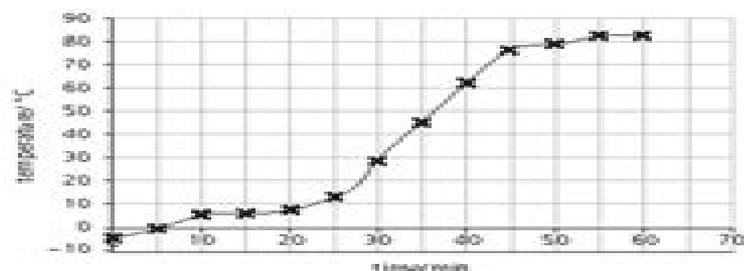
IGCSE Chemistry Workbook

Answers

1 The particulate nature of matter

Core

1 a



[1 for scale, 1 for axis labels and units, 1 for points plotted correctly, 1 for line]

- b 5°C [1]
c 82°C [1]
d The particles move around more as they gain kinetic energy. [1] This breaks more of the inter-particle bonds, allowing the particles to move away from each other. [1]
- 2 In ice, I (the water molecule) am bonded to other water molecules and vibrating in a fixed position. [1] As the temperature rises, there is enough energy for some of the bonds between us to weaken and begin to break due to the increase in vibrations. [1] This allows me to move further from my neighbouring molecules and I am able to move past them. [1] As the temperature continues to rise, more of the bonds between us begin to break and I move away from my neighbouring molecules and move much more quickly. [1] At 100°C I have so little attraction to my neighbouring molecules that I am able to break away [1] and move a long way away from them. [1]
- 3 a i when a substance changes from a solid to a liquid [1]
ii when substances are changed into different substances by chemical reaction [1]

- iii when a solid changes directly to a gas, or vice versa [1]
iv when a gas changes into a liquid [1]
v when a liquid changes into a gas [1]
vi when a solute 'disappears' into a solvent to form a solution [1]
- b i condensation [1]
ii melting [1]
iii sublimation [1]
iv dissolving [1]

Core/Extended

- 4 a Diffusion cannot occur in solids because the particles are bonded to each other more strongly than those in liquids and gases, which do diffuse. [1] This prevents them from being able to move relative to one another. [1]
b Gases can be compressed more than liquids because the particles in the gas are much more spread out than those in a liquid. [1] This means that the gas particles can be squeezed together more than those in a liquid, which are much closer to one another. [1]
c Liquids can flow because their particles have much weaker bonds between them than those in a solid. [1] This means that the particles in a liquid can move over one another. [1]

Extended

- 5 a ammonia [1]
b point B [1] Both HCl and NH₃ particles move randomly along the tube, but the ammonia particles are lighter and so will move faster and further along the tube than the HCl particles. [1]
c randomly [1]

Exam focus

- 1 a i Solid – any two of: cannot be compressed, has a fixed shape, expands on heating [2]
Liquid – any two of: will flow and take

Lesson 16 1 Reading And Study Workbook Answers Chemistry

Yijin Wang



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web kelas ordo family genus species jenis kangkung yang umumnya dibudidayakan terdiri dari dua macam yaitu kangkung air dan kangkung darat bagian dari tanaman kangkung yang paling banyak dimanfaatkan ialah batang muda dan daun daunnya daun dan batang kangkung merupakan

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web kangking termasuk ke dalam famili convolvulaceae atau kangkung kangkingan dengan ciri ciri batangnya kecil bulat panjang bagian dalamnya berlubang dan bergetah selain itu kangkung merupakan sumber vitamin a vitamin c dan mineral seperti zat besi kalsium kalium dan fosfor nazaruddin 2003

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