

NO	DIFFUSION-SET-1
1	<p data-bbox="256 260 1435 317">Aqueous lead(II) nitrate and aqueous potassium iodide are added to a dish containing water, as shown.</p> <div data-bbox="224 348 1414 667" style="text-align: center;"> </div> <p data-bbox="256 701 813 730">A yellow precipitate forms after a few minutes.</p> <p data-bbox="256 764 878 793">Which process occurs before the precipitate forms?</p> <p data-bbox="256 827 461 1010"> <b>A</b> diffusion  <b>B</b> distillation  <b>C</b> fermentation  <b>D</b> filtration </p>
Ms-1	A
2	<p data-bbox="256 1178 1409 1207">In which of the following are the particles arranged in a regular pattern?</p> <p data-bbox="256 1255 488 1501"> <b>A</b> a gas  <b>B</b> a liquid  <b>C</b> a metal  <b>D</b> a solution </p>
Ms-2	C

3 When there is no wind, the scent of flowers can be detected more easily on a warm evening than on a cold evening.

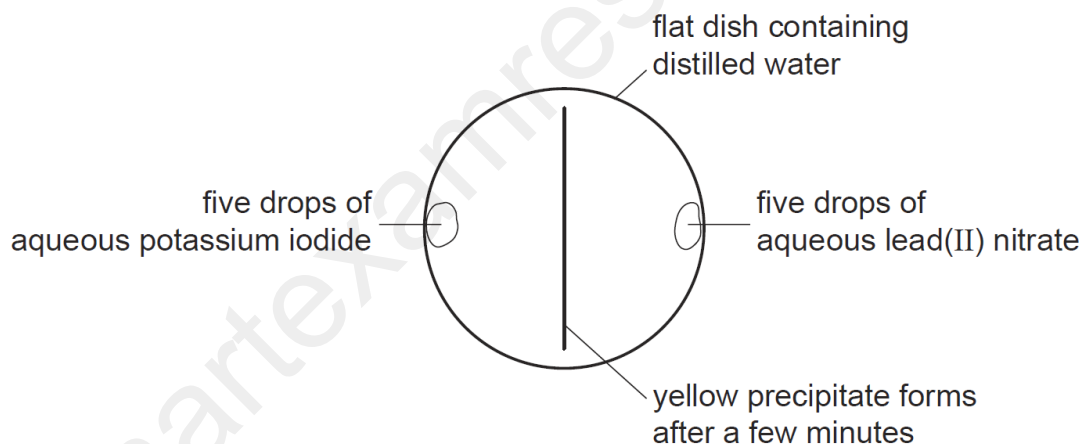
This is because the molecules of the scent .....1..... .....2..... than in colder conditions.

Which words correctly complete gaps 1 and 2?

	gap 1	gap 2
<b>A</b>	condense	nearer to the flowers
<b>B</b>	condense	further from the flowers
<b>C</b>	diffuse	nearer to the flowers
<b>D</b>	diffuse	further from the flowers

Ms-3 A

4 A yellow precipitate is formed in the experiment shown.

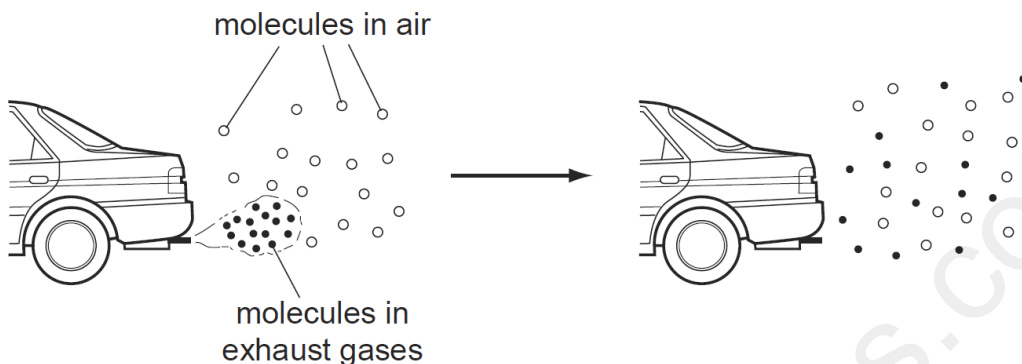


How is the precipitate formed?

- A** Particles collide, diffuse and then react.
- B** Particles collide, react and then diffuse.
- C** Particles diffuse, collide and then react.
- D** Particles diffuse, react and then collide

Ms-4 C

5 The diagram shows how the molecules in the exhaust gases diffuse into the air.



Which statement describes what happens to these molecules next?

- A The molecules fall to the ground because they are heavier than air molecules.
- B The molecules go back together as they cool.
- C The molecules spread further into the air.
- D The molecules stay where they are.

Ms-5

C

6 The diagram shows a cup of tea.



Which row describes the water particles in the air above the cup compared with the water particles in the cup?


	moving faster	closer together
<b>A</b>	✓	✓
<b>B</b>	✓	x
<b>C</b>	x	✓
<b>D</b>	x	x


Ms-6


B


7

Which diagram shows the process of diffusion?

**A** 

**B** 

**C** 

**D** 

key  
 ○ } different atoms  
 ● }

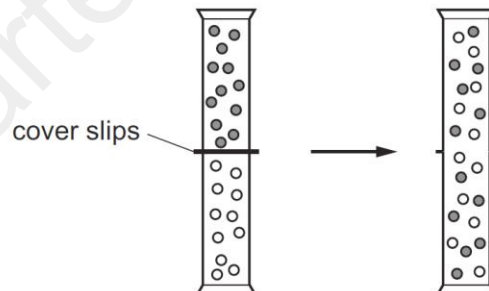
Ms-7

C

8

Two gas jars each contain a different gas. The gas jars are connected and the cover slips are removed.

The diagram shows what happens to the particles of the gases.



Which process has occurred?

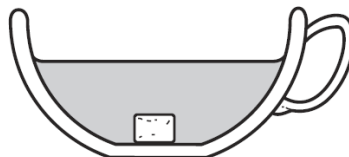
- A** chemical reaction
- B** condensation
- C** diffusion
- D** evaporation

Ms-8

C

9

The diagram shows a sugar lump in a cup of tea.



Which two processes must happen to spread the sugar evenly in the tea?

	first process	second process
<b>A</b>	diffusion	dissolving
<b>B</b>	dissolving	diffusion
<b>C</b>	dissolving	melting
<b>D</b>	melting	diffusion

Ms-9

B

10

A few drops of perfume were spilt on the floor. A few minutes later the perfume could be smelt a few metres away.

Which two processes had taken place?

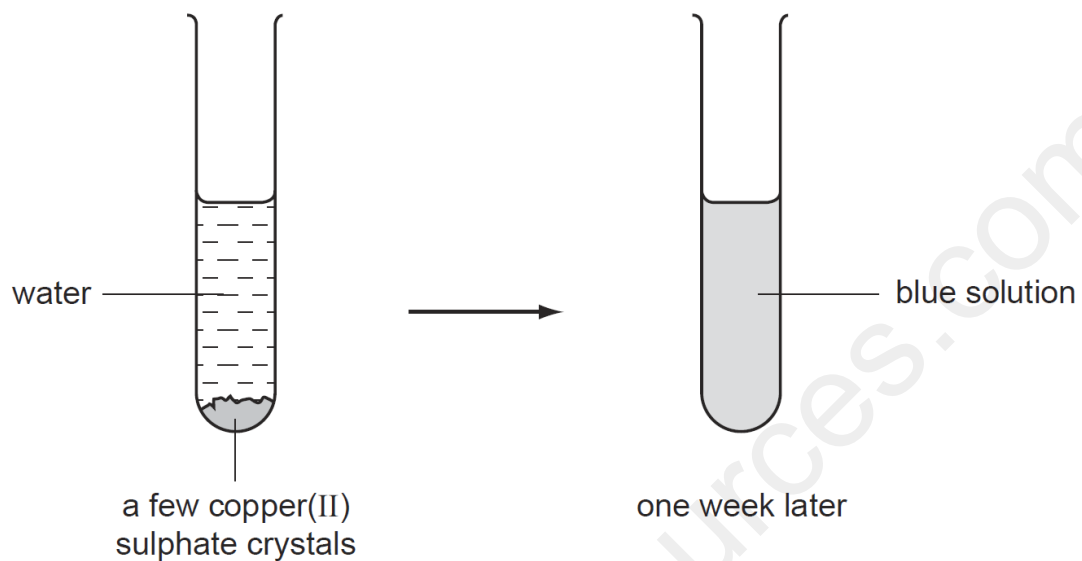
- A** distillation and condensation
- B** distillation and diffusion
- C** evaporation and condensation
- D** evaporation and diffusion

Ms-10

D

11

Blue copper(II) sulphate crystals are soluble in water.



What has happened after one week?

- A** crystallisation
- B** diffusion
- C** distillation
- D** filtration

Ms-11

B