

## Section A: Principles of Chemistry

### A1 States of Matter

No.	Answers	Further explanations
1	C	
2	D	$\text{NH}_3(\text{g}) + \text{HCl}(\text{g}) \longrightarrow \text{NH}_4\text{Cl}(\text{s})$ <p>The concentrated ammonia solution gives off ammonia gas and the concentrated hydrochloric acid gives off hydrogen chloride gas, shown by the state symbols (g). The particles of both gases diffuse along the tube, collide and react to form a white ring composed of solid white ammonium chloride particles, shown by the state symbol (s).</p>
3	A	<p>Ammonia molecules diffuse faster than hydrogen chloride molecules. Ammonia molecules are smaller and lighter than hydrogen chloride molecules, so they diffuse faster along the tube, and the particles of the two gases collide and react closer to the source of the hydrogen chloride.</p>
4	C	
5	A	<p>Increased in length and become rigid</p> <p>The paw-paw strip is composed of living cells. Each cell is surrounded by a differentially permeable membrane and contains cytoplasm containing about 80% water. By osmosis, water enters each cell causing it to swell slightly. This causes the strip to increase in length and become rigid.</p>
6	B	<p>Moved down</p> <p>The 20% sucrose solution inside the thistle funnel contains more water than the 40% sucrose solution in the beaker. By osmosis, water moves out of the solution in the thistle funnel through the differentially permeable membrane into the solution in the beaker. This decreases the volume of the solution in the thistle funnel which causes the meniscus to move down.</p>

# States Of Matter Answer Key Chemistry Pearson

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*Young Scientist Series ICSE Chemistry 7* Lorraine Mirza, Krishnakali Gupta,

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*The Chemical News and Journal of Industrial Science*, 1917 **Campbell Biology Australian and New Zealand Edition** Jane B. Reece, Noel Meyers, Lisa A. Urry, Michael L. Cain, Steven A.

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