

States of matter

Mark Scheme 2

Level	IGCSE
Subject	Chemistry
Exam Board	Edexcel IGCSE
Module	Single Award (Paper 2C)
Topic	Principles of Chemistry
Sub-Topic	States of Matter
Booklet	Mark Scheme 2

Time Allowed: 11 minutes

Score: /9

Percentage: /100

A*	A	B	C	D	E	U
>85%	775%	70%	60%	55%	50%	<50%

Question number	Answer	Notes	Marks
1 a	A (the crystal dissolves)		1
b	A (it is all blue)		1
c i	4		1
ii	21		1

Question number		Answer			Notes	Marks														
2	(a)	<table border="1"> <thead> <tr> <th>Substance</th> <th>Element or compound</th> <th>Type of bonding</th> </tr> </thead> <tbody> <tr> <td>ammonia</td> <td>compound</td> <td></td> </tr> <tr> <td>hydrogen chloride</td> <td>(compound)</td> <td>covalent</td> </tr> <tr> <td>oxygen</td> <td>element</td> <td>(covalent)</td> </tr> <tr> <td>magnesium oxide</td> <td>compound</td> <td></td> </tr> </tbody> </table>	Substance	Element or compound	Type of bonding	ammonia	compound		hydrogen chloride	(compound)	covalent	oxygen	element	(covalent)	magnesium oxide	compound			Ignore qualifiers for covalent, eg polar / dative All 6 correct = 3 marks 5 or 4 correct = 2 marks 3 or 2 correct = 1 mark 1 or 0 correct = 0 marks	3
Substance	Element or compound	Type of bonding																		
ammonia	compound																			
hydrogen chloride	(compound)	covalent																		
oxygen	element	(covalent)																		
magnesium oxide	compound																			
	(b)	B	(MgO)			1														
	(c)	B	(g)			1														
					Total for Question 2	5														