

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><b>compound</b></td> <td></td> </tr> <tr> <td>hydrogen chloride</td> <td>(compound)</td> <td><b>covalent</b></td> </tr> <tr> <td>oxygen</td> <td><b>element</b></td> <td>(covalent)</td> </tr> <tr> <td>magnesium oxide</td> <td><b>compound</b></td> <td></td> </tr> </tbody> </table>			Substance	Element or compound	Type of bonding	ammonia	<b>compound</b>		hydrogen chloride	(compound)	<b>covalent</b>	oxygen	<b>element</b>	(covalent)	magnesium oxide	<b>compound</b>		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	<b>compound</b>																				
hydrogen chloride	(compound)	<b>covalent</b>																			
oxygen	<b>element</b>	(covalent)																			
magnesium oxide	<b>compound</b>																				
	(b)	B (MgO)				1															
	(c)	B (g)				1															
					<b>Total for Question 2</b>	<b>5</b>															