0 1	Barium chloride can react with sodium sulfate to produce barium sulfate a sodium chloride.	and
	Barium and chloride ions make barium chloride. In the space provided belowrite the formula for barium chloride. Use the Chemistry data sheet to help you.	ow, [1 mark]
	$\mathbf{BaCl_{2(aq)}} + Na_2SO_{4(aq)} \rightarrow BaSO_{4(s)} + 2NaCl_{(aq)}$	
0 1 . 1	What does (aq) mean? aqueous / solution	[1 mark]
0 2	An unknown solution, Y , was tested with acidified silver nitrate solution.	
0 2 . 1	Which acid was used to acidify the solution? nitric acid	[1 mark]
0 2 . 2	Why it it necessary to add an acid to solution Y before adding silver nitrate to remove any (carbonate) impurities that may be present in the solution	e? [1 mark]
0 2 . 3	Solution Y contains iodide (I ⁻) ions.	
	What would the student observe?	2 marks]
	yellow [1] precipitate/solid [1]	
0 3	Some students added a solution of ethanoic acid to an unknown compour gas was produced which turned limewater milky.	nd, Z . A
0 3 . 1	Name the anion present in the unknown compound (Z) and give a reason tanswer.	for your
	carbonate ion / CO3 ²⁻ [1]	2 marks]
	carbonates react with acids to form carbon dioxide [1] (which turns limewa milky)	ter
	(Total 8	3 marks)

End