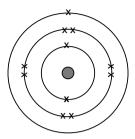
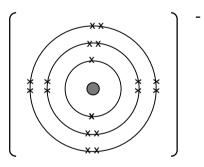
Sodium chloride, also known as common salt, can be made by reacting sodium and chlorine gas. The diagram below represents a sodium atom.



		(3 marks)
	Give the exact charge on the sodium ion.	
1 (a)	Use the diagram to help you explain how a sodium atom turns into a sodium	ım ion.

1 (a) (i) The diagram below represents a chloride ion.



The chloride ion is negative, (Cl).

i) Explain why the chloride ion has a negative charge. Use the diagram to help you.	
(2 mar.	

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1 (a) (iii)	Chloride ions are strongly attracted to sodium ions in sodium chloride.	
	Explain why.	
	(1 mark)	
	(Total 6 marks)	
2	Chlorine is an element which placed in group 7 of the periodic table (the halogens). There are more elements in group 7.	
2 (a) (i)	Name another element in group 7 of the Periodic Table. You may use the data sheet to help you.	
	(1 mark)	
2 (a) (ii)	All group 7 elements can produce ions. What is the charge on the ions produced by group 7 elements?	
	(1 mark)	
2 (a) (iii)	The diagram below represents the lattice structure of a sodium chloride crystal.	
2 (a) (iv)	Explain why the ions in this lattice stay in place.	
	(3 marks)	
	(Total 5 marks)	
	Login or subscribe to my-GCSEscience.com to see the answers and commentary.	

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