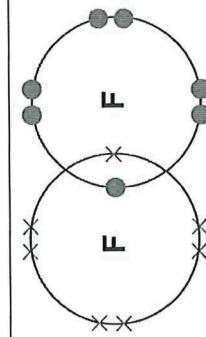


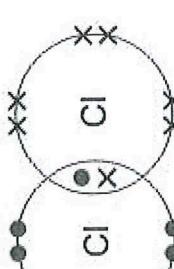
WJEC Chemistry 2  
Option – Foundation Tier  
2.1 Mark Scheme

Question	Marking details			Marks available		
	AO1	AO2	AO3	Total	Maths	Prac
4 (a) (i)	(2,8) (1)					
	2- accept -2	(1)		2		2
(ii)	Na <sub>2</sub> O (1)					
	2 in the box (1)			2		2
	formula must be correct for balancing mark to be awarded				1	
(b)	C				1	
(c) (i)	giant covalent			1		1
(iii)	diamond	hard (1)				
	graphite	soft (1)				
	fullerene	hollow (1)		3		3
Question 4 total			4	5	0	9
					1	0

Foundation Tier only questions

**Common questions**

Question	Marking details	Marks available				
		AO1	AO2	AO3	Total	Maths
8/1 (a) (i)	$\text{K}^-$  (2,8,8)				2	
	award (1) for each mistake identified [no explanation required but should be $\text{K}^+$ and (2,8)]					
	(ii)	1			1	
	(iii)	1			1	
(b)					2	
	award (2) for correct answer if not correct award (1) for shared pair of electrons accept dots used to represent all electrons					
<b>Question 8/1 total</b>		<b>1</b>	<b>5</b>	<b>0</b>	<b>6</b>	<b>0</b>

Question		Marking details			Marks available		
		AO1	AO2	AO3	Total	Maths	Prac
6	(a) (i)	D and E both needed			1	1	
	(ii)	B			1	1	
	(iii)	C			1	1	
	(b)		shared pair (1) octet (1) accept with all dots/crosses ignore any inner shells drawn		2	2	
	(c) (i)	V 2+ (1) accept +2 Y 1- / - (1) accept -1 award (1) for V ⇔ positive and Y ⇔ negative			2	2	
	(ii)	YY <sub>2</sub>			1	1	

Question		Marking details	Marks available					
			AO1	AO2	AO3	Total	Maths	Prac
(iii)	83 (2) award (1) for correct answer not to nearest whole number e.g. 82.9 / 82.98 / 82.97 if answer incorrect award (1) for any of following 39 × 2 78 82 0.83 41			2		2	2	0
		<b>Question 6 total</b>	0	7	3	10	2	0