

Practice test mark scheme Foundation

Q		Expected answers	Marks	Additional guidance
1	a	toxic	1	
	b	sodium + chlorine → sodium chloride	1	
	c	kills bacteria	1	
			3	
2	a	nucleus	1	
	b	2.7	1	
	c	9	1	
			3	
3	a	charged particles	1	
	b	lattice	1	
	c	KBr	1	
			3	
4	a	(group) 1	1	allow 'melts easier' for 2 nd point
	b i	<ul style="list-style-type: none"> • get softer / easier to cut going down the group • melting point gets lower going down the group • there is no pattern for density / density goes up and then it goes down 	1	
			1	
			1	
	b ii	40 °C	1	
	c i	sodium hydroxide / hydrogen	1	
	c ii	solid	1	
			7	
5	a	light	1	Any 3 points
	b	<ul style="list-style-type: none"> • each element has a different line spectrum • so we can tell elements apart • so we can identify elements present • a spectrum may have lines in it that are new/not seen before • unrecognisable lines mean new elements 	1	
			1	
			1	
			1	
		4		

TOTAL
20

Practice test mark scheme Higher

Q		Expected answers	Marks	Additional guidance
1	a	light	1	Any 3 points
	b	<ul style="list-style-type: none"> each element has a different line spectrum so we can tell elements apart so we can identify elements present a spectrum may have lines in it that are new/not seen before unrecognisable lines mean new elements 	1	
1				
1				
1				
			4	
2	a	toxic	1	
	b	2KCl	1	
	c	green / green-yellow	1	
			3	
3	a	protons and neutrons	1	both needed
	b	2.7	1	
	c	9	1	
			3	
4	a	charged particles	1	
	b	lattice	1	
	c	KBr	1	
			3	
5	a	MgCl ₂	1	
	b	<ul style="list-style-type: none"> in the solid state the ions are in fixed positions in solution, or when molten, the ions are able to move independently since they are charged they can now conduct electricity/ conductors need charged particles which can move 	1	
			1	
			1	
			4	
6	a	hydrogen	1	Allow KHO
	b	KOH	1	
	c	lithium or sodium	1	
			3	

TOTAL 20