

90944MR



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

Pūtaiao, Kaupae 1, 2014

90944M Te whakaatu māramatanga ki ngā āhuatanga o te waikawa me te pāpāhua¹

9.30 i te ata Rāhina 10 Whiringa-ā-rangi 2014
Whiwhinga: Whā

PUKAITI RAUEMI

Tirohia tēnei pukaiti hei whakautu i ngā pātai mō 90944M.

Tirohia mehemea kei roto nei ngā whārangi 2–3 e raupapa tika ana, ā, kāore hoki he whārangi wātea.

KA TAEA TĒNEI PUKAITI TE PUPURI HEI TE MUTUNGA O TE WHAKAMĀTAUTAU.

¹ kawakore

Taka Katote
Table of Ions

+1	+2	+3	-3	-2	-1
NH_4^+	Ca^{2+}	Al^{3+}		O^{2-}	OH^-
Na^+	Mg^{2+}	Fe^{3+}		S^{2-}	Cl^-
K^+	Cu^{2+}			CO_3^{2-}	NO_3^-
Ag^+	Pb^{2+}			SO_4^{2-}	HCO_3^-
H^+	Fe^{2+}				F^-
	Ba^{2+}				
	Zn^{2+}				

**TAKA PŪMOTU
PERIODIC TABLE OF THE ELEMENTS**

Tau iraoho Atomic Number																			
1 H																			
2																		18	
3																		2	He
4																		10	Ne
11																		17	Cl
12																		18	Ar
19																		36	Kr
37																		54	Xe
55																		86	Rn
87																		110	Ds
88																		111	Rg
1																		13	B
2																		14	C
3																		15	N
4																		16	O
5																		17	F
6																		18	Ne
7																		19	K
8																		20	Ca
9																		21	Sc
10																		22	Ti
11																		23	V
12																		24	Cr
13																		25	Mn
14																		26	Fe
15																		27	Co
16																		28	Ni
17																		29	Cu
18																		30	Zn
19																		31	Ga
20																		32	Ge
21																		33	As
22																		34	Se
23																		35	Br
24																		36	Kr
25																		37	Rb
26																		38	Sr
27																		39	Y
28																		40	Zr
29																		41	Nb
30																		42	Mo
31																		43	Tc
32																		44	Ru
33																		45	Rh
34																		46	Pd
35																		47	Ag
36																		48	Cd
37																		49	In
38																		50	Sn
39																		51	Sb
40																		52	Te
41																		53	I
42																		54	Xe
43																		55	Cs
44																		56	Ba
45																		57	La
46																		58	Ce
47																		59	Pr
48																		60	Nd
49																		61	Pm
50																		62	Sm
51																		63	Eu
52																		64	Gd
53																		65	Tb
54																		66	Dy
55																		67	Ho
56																		68	Er
57																		69	Tm
58																		70	Yb
59																		71	Lu
60																		72	Hf
61																		73	Ta
62																		74	W
63																		75	Re
64																		76	Os
65																		77	Ir
66																		78	Pt
67																		79	Au
68																		80	Hg
69																		81	Tl
70																		82	Pb
71																		83	Bi
72																		84	Po
73																		85	At
74																		86	Rn
75																		87	Fr
76																		88	Ra
77																		89	Ac
78																		90	Th
79																		91	Pa
80																		92	U
81																		93	Np
82																		94	Pu
83																		95	Am
84																		96	Cm
85																		97	Bk
86																		98	Cf
87																		99	Es
88																		100	Fm
89																		101	Md
90																		102	No

57	La	58	Ce	59	Pr	60	Nd	61	Pm	62	Sm	63	Eu	64	Gd	65	Tb	66	Dy	67	Ho	68	Er	69	Tm	70	Yb
89	Ac	90	Th	91	Pa	92	U	93	Np	94	Pu	95	Am	96	Cm	97	Bk	98	Cf	99	Es	100	Fm	101	Md	102	No

English translation of the wording on the front cover

Level 1 Science, 2014

90944 Demonstrate understanding of aspects of acids and bases

9.30 am Monday 10 November 2014
Credits: Four

RESOURCE BOOKLET

Refer to this booklet to answer the questions for 90944.

Check that this booklet has pages 2–3 in the correct order and that none of these pages is blank.

YOU MAY KEEP THIS BOOKLET AT THE END OF THE EXAMINATION.