

L3-CHEMR



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

QUALIFY FOR THE FUTURE WORLD
KIA NOHO TAKATŪ KI TŌ ĀMUA AO!

Level 3 Chemistry, 2015

2.00 p.m. Wednesday 11 November 2015

RESOURCE SHEET for 91390, 91391, 91392

Refer to this sheet to answer the questions in your Question and Answer Booklets.

Check that this sheet is printed on the back.

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

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PERIODIC TABLE OF THE ELEMENTS

18

Atomic number		Relative atomic mass																																											
1		2																																											
H 1.0		He 4.0																																											
3		4																5		6		7		8		9		10		11		12		13		14		15		16		17		18	
Li 6.9		Be 9.0		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18											
11	Na 23.0	12	Mg 24.3	19	K 39.1	20	Ca 40.1	21	Sc 45.0	22	Ti 47.9	23	V 50.9	24	Cr 52.0	25	Mn 54.9	26	Fe 55.9	27	Co 58.9	28	Ni 58.7	29	Cu 63.5	30	Zn 65.4	31	Ga 69.7	32	Ge 72.6	33	As 74.9	34	Se 79.0	35	Br 79.9	36	Kr 83.8						
37	Rb 85.5	38	Sr 87.6	39	Y 88.9	40	Zr 91.2	41	Nb 92.9	42	Mo 95.9	43	Tc 98.9	44	Ru 101	45	Rh 103	46	Pd 106	47	Ag 108	48	Cd 112	49	In 115	50	Sn 119	51	Sb 122	52	Te 128	53	I 127	54	Xe 131										
55	Cs 133	56	Ba 137	71	Lu 175	72	Hf 179	73	Ta 181	74	W 184	75	Re 186	76	Os 190	77	Ir 192	78	Pt 195	79	Au 197	80	Hg 201	81	Tl 204	82	Pb 207	83	Bi 209	84	Po 210	85	At 210	86	Rn 222										
87	Fr 223	88	Ra 226	103	Lr 262	104	Rf 261	105	Db 262	106	Sg 263	107	Bh 264	108	Hs 265	109	Mt 268	110	Ds 271	111	Rg 272	112	Cn 277	113	Nh 284	114	Fl 289	115	Mc 290	116	Lv 292	117	Ts 294	118	Og 294										

Lanthanide Series	57	La 139	58	Ce 140	59	Pr 141	60	Nd 144	61	Pm 147	62	Sm 150	63	Eu 152	64	Gd 157	65	Tb 159	66	Dy 163	67	Ho 165	68	Er 167	69	Tm 169	70	Yb 173
Actinide Series	89	Ac 227	90	Th 232	91	Pa 231	92	U 238	93	Np 237	94	Pu 239	95	Am 241	96	Cm 244	97	Bk 249	98	Cf 251	99	Es 252	100	Fm 257	101	Md 258	102	No 259