

L1-CHEMR



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

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

Level 1 Chemistry, 2016

2.00 p.m. Monday 21 November 2016

RESOURCE BOOKLET for 90933 and 90934

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

Check that this booklet has pages 2 and 3 in the correct order and that neither of these pages is blank.

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

Activity series

Ca Mg Al Zn Fe Pb (H) Cu Ag

Solubility rules

nitrates, NO_3^-	All soluble
chlorides, Cl^-	All soluble except AgCl , PbCl_2
iodides, I^-	All soluble except AgI , PbI_2
sulfates, SO_4^{2-}	All soluble except BaSO_4 , PbSO_4 , CaSO_4
hydroxides, OH^-	All insoluble except KOH , NaOH
carbonates, CO_3^{2-}	All insoluble except K_2CO_3 , Na_2CO_3

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-}	I^-
Ag^+	Pb^{2+}			SO_4^{2-}	NO_3^-
H^+	Fe^{2+}				HCO_3^-
Li^+	Ba^{2+}				F^-
	Zn^{2+}				

