

## Data Sheet

### 1. Reactivity Series of Metals

Potassium		most reactive
Sodium		
Calcium		
Magnesium		
Aluminium		
<i>Carbon</i>		
Zinc		
Iron		
Tin		
Lead		
<i>Hydrogen</i>		
Copper		
Silver		
Gold		
Platinum		least reactive

(elements in italics, though non-metals, have been included for comparison)

### 2. Formulae of Some Common Ions

Positive ions		Negative ions	
Name	Formula	Name	Formula
Hydrogen	$H^+$	Chloride	$Cl^-$
Sodium	$Na^+$	Bromide	$Br^-$
Silver	$Ag^+$	Fluoride	$F^-$
Potassium	$K^+$	Iodide	$I^-$
Lithium	$Li^+$	Hydroxide	$OH^-$
Ammonium	$NH_4^+$	Nitrate	$NO_3^-$
Barium	$Ba^{2+}$	Oxide	$O^{2-}$
Calcium	$Ca^{2+}$	Sulfide	$S^{2-}$
Copper(II)	$Cu^{2+}$	Sulfate	$SO_4^{2-}$
Magnesium	$Mg^{2+}$	Carbonate	$CO_3^{2-}$
Zinc	$Zn^{2+}$		
Lead	$Pb^{2+}$		
Iron(II)	$Fe^{2+}$		
Iron(III)	$Fe^{3+}$		
Aluminium	$Al^{3+}$		

**Turn over ►**

### 3. The Periodic Table of Elements

1      2

1 <b>H</b> hydrogen 1
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3      4      5      6      7      0

		Key																											
		relative atomic mass atomic symbol name atomic (proton) number																											
7 <b>Li</b> lithium 3	9 <b>Be</b> beryllium 4																												
23 <b>Na</b> sodium 11	24 <b>Mg</b> magnesium 12																												
39 <b>K</b> potassium 19	40 <b>Ca</b> calcium 20	45 <b>Sc</b> scandium 21	48 <b>Ti</b> titanium 22	51 <b>V</b> vanadium 23	52 <b>Cr</b> chromium 24	55 <b>Mn</b> manganese 25	56 <b>Fe</b> iron 26	59 <b>Co</b> cobalt 27	59 <b>Ni</b> nickel 28	63.5 <b>Cu</b> copper 29	65 <b>Zn</b> zinc 30																		
85 <b>Rb</b> rubidium 37	88 <b>Sr</b> strontium 38	89 <b>Y</b> yttrium 39	91 <b>Zr</b> zirconium 40	93 <b>Nb</b> niobium 41	96 <b>Mo</b> molybdenum 42	[98] <b>Tc</b> technetium 43	101 <b>Ru</b> ruthenium 44	103 <b>Rh</b> rhodium 45	106 <b>Pd</b> palladium 46	108 <b>Ag</b> silver 47	112 <b>Cd</b> cadmium 48																		
133 <b>Cs</b> caesium 55	137 <b>Ba</b> barium 56	139 <b>La*</b> lanthanum 57	178 <b>Hf</b> hafnium 72	181 <b>Ta</b> tantalum 73	184 <b>W</b> tungsten 74	186 <b>Re</b> rhenium 75	190 <b>Os</b> osmium 76	192 <b>Ir</b> iridium 77	195 <b>Pt</b> platinum 78	197 <b>Au</b> gold 79	201 <b>Hg</b> mercury 80																		
[223] <b>Fr</b> francium 87	[226] <b>Ra</b> radium 88	[227] <b>Ac*</b> actinium 89	[261] <b>Rf</b> rutherfordium 104	[262] <b>Db</b> dubnium 105	[266] <b>Sg</b> seaborgium 106	[264] <b>Bh</b> bohrium 107	[277] <b>Hs</b> hassium 108	[268] <b>Mt</b> meitnerium 109	[271] <b>Ds</b> darmstadtium 110	[272] <b>Rg</b> roentgenium 111	Elements with atomic numbers 112 – 116 have been reported but not fully authenticated																		
		11 <b>B</b> boron 5	12 <b>C</b> carbon 6	14 <b>N</b> nitrogen 7	16 <b>O</b> oxygen 8	19 <b>F</b> fluorine 9	20 <b>Ne</b> neon 10	27 <b>Al</b> aluminium 13	28 <b>Si</b> silicon 14	31 <b>P</b> phosphorus 15	32 <b>S</b> sulfur 16	35.5 <b>Cl</b> chlorine 17	40 <b>Ar</b> argon 18	70 <b>Ga</b> gallium 31	73 <b>Ge</b> germanium 32	75 <b>As</b> arsenic 33	79 <b>Se</b> selenium 34	80 <b>Br</b> bromine 35	84 <b>Kr</b> krypton 36	115 <b>In</b> indium 49	119 <b>Sn</b> tin 50	122 <b>Sb</b> antimony 51	127 <b>I</b> iodine 53	131 <b>Xe</b> xenon 54	204 <b>Pb</b> lead 82	207 <b>Po</b> polonium 84	209 <b>Bi</b> bismuth 83	[210] <b>At</b> astatine 85	[222] <b>Rn</b> radon 86

\* The Lanthanides (atomic numbers 58 – 71) and the Actinides (atomic numbers 90 – 103) have been omitted.  
Cu and Cl have not been rounded to the nearest whole number.