


## Chemistry Data Sheet

### 1. Reactivity Series of Metals

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

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

### 2. Formulae of Some Common Ions

#### Positive ions

Name	Formula
Hydrogen	H <sup>+</sup>
Sodium	Na <sup>+</sup>
Silver	Ag <sup>+</sup>
Potassium	K <sup>+</sup>
Lithium	Li <sup>+</sup>
Ammonium	NH <sub>4</sub> <sup>+</sup>
Barium	Ba <sup>2+</sup>
Calcium	Ca <sup>2+</sup>
Copper(II)	Cu <sup>2+</sup>
Magnesium	Mg <sup>2+</sup>
Zinc	Zn <sup>2+</sup>
Lead	Pb <sup>2+</sup>
Iron(II)	Fe <sup>2+</sup>
Iron(III)	Fe <sup>3+</sup>
Aluminium	Al <sup>3+</sup>

#### Negative ions

Name	Formula
Chloride	Cl <sup>-</sup>
Bromide	Br <sup>-</sup>
Fluoride	F <sup>-</sup>
Iodide	I <sup>-</sup>
Hydroxide	OH <sup>-</sup>
Nitrate	NO <sub>3</sub> <sup>-</sup>
Oxide	O <sup>2-</sup>
Sulfide	S <sup>2-</sup>
Sulfate	SO <sub>4</sub> <sup>2-</sup>
Carbonate	CO <sub>3</sub> <sup>2-</sup>

Turn over ►

### 3. The Periodic Table of Elements

	1	2	3	4	5	6	7	0										
	1 <b>H</b> hydrogen 1							4 <b>He</b> helium 2										
		9 <b>Be</b> beryllium 4						20 <b>Ne</b> neon 10										
	7 <b>Li</b> lithium 3							19 <b>F</b> fluorine 9										
		24 <b>Mg</b> magnesium 12						35.5 <b>Cl</b> chlorine 17										
	23 <b>Na</b> sodium 11							40 <b>Ar</b> argon 18										
								84 <b>Kr</b> krypton 36										
	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	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
	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	115 <b>In</b> indium 49	119 <b>Sn</b> tin 50	122 <b>Sb</b> antimony 51	128 <b>Te</b> tellurium 52	127 <b>I</b> iodine 53	131 <b>Xe</b> xenon 54
	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	204 <b>Tl</b> thallium 81	207 <b>Pb</b> lead 82	209 <b>Bi</b> bismuth 83	[209] <b>Po</b> polonium 84	[210] <b>At</b> astatine 85	[222] <b>Rn</b> radon 86
[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							

**Key**  
relative atomic mass  
atomic symbol  
name  
atomic (proton) number

\* The Lanthanides (atomic numbers 58 – 71) and the Actinides (atomic numbers 90 – 103) have been omitted.

Relative atomic masses for **Cu** and **Cl** have not been rounded to the nearest whole number.