

### Teaching notes

This resource contains three different versions of the periodic table, including a blank one for colouring!

It also contains tables of the Group 0, 1 and 7 elements with a few columns for completion.

It is designed to be adapted to the needs of the teacher and student. For example:

- You can choose which elements you require information about.
- You can create activities suitable for homework as well as in class.
- Students can use ICT to explore applications of the elements.
- Blank tables can be distributed to students.
- Tables can be cut and pasted into students' books.

Periodic tables – for colouring or cut and paste!

1		2												3	4	5	6	7	0			
				<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>H</b> hydrogen                 </div>																		4
7	9	<b>Transition elements</b>										11	12	14	16	19	20					
<b>Li</b> lithium 3	<b>Be</b> beryllium 4											<b>B</b> boron 5	<b>C</b> carbon 6	<b>N</b> nitrogen 7	<b>O</b> oxygen 8	<b>F</b> fluorine 9	<b>Ne</b> neon 10					
23	24											27	28	31	32	35.5	40					
<b>Na</b> sodium 11	<b>Mg</b> magnesium 12											<b>Al</b> aluminium 13	<b>Si</b> silicon 14	<b>P</b> phosphorus 15	<b>S</b> sulfur 16	<b>Cl</b> chlorine 17	<b>Ar</b> argon 18					
39	40	45	48	51	52	55	56	59	59	63.5	65	70	73	75	79	80	84					
<b>K</b> potassium 19	<b>Ca</b> calcium 20	<b>Sc</b> scandium 21	<b>Ti</b> titanium 22	<b>V</b> vanadium 23	<b>Cr</b> chromium 24	<b>Mn</b> manganese 25	<b>Fe</b> iron 26	<b>Co</b> cobalt 27	<b>Ni</b> nickel 28	<b>Cu</b> copper 29	<b>Zn</b> zinc 30	<b>Ga</b> gallium 31	<b>Ge</b> germanium 32	<b>As</b> arsenic 33	<b>Se</b> selenium 34	<b>Br</b> bromine 35	<b>Kr</b> krypton 36					
85	88	89	91	93	96	(98)	101	103	106	108	112	115	119	122	128	127	131					
<b>Rb</b> rubidium 37	<b>Sr</b> strontium 38	<b>Y</b> yttrium 39	<b>Zr</b> zirconium 40	<b>Nb</b> niobium 41	<b>Mo</b> molybdenum 42	<b>Tc</b> technetium 43	<b>Ru</b> ruthenium 44	<b>Rh</b> rhodium 45	<b>Pd</b> palladium 46	<b>Ag</b> silver 47	<b>Cd</b> cadmium 48	<b>In</b> indium 49	<b>Sn</b> tin 50	<b>Sb</b> antimony 51	<b>Te</b> tellurium 52	<b>I</b> iodine 53	<b>Xe</b> xenon 54					
133	137	57 - 71	178	181	184	186	190	192	195	197	201	204	207	209	(209)	(210)	(222)					
<b>Cs</b> caesium 55	<b>Ba</b> barium 56	below	<b>Hf</b> hafnium 72	<b>Ta</b> tantalum 73	<b>W</b> tungsten 74	<b>Re</b> rhenium 75	<b>Os</b> osmium 76	<b>Ir</b> iridium 77	<b>Pt</b> platinum 78	<b>Au</b> gold 79	<b>Hg</b> mercury 80	<b>Tl</b> thallium 81	<b>Pb</b> lead 82	<b>Bi</b> bismuth 83	<b>Po</b> polonium 84	<b>At</b> astatine 85	<b>Rn</b> radon 86					
(223)	(226)	89 - 103	(261)	(262)	(266)	(264)	(277)	(268)	(271)	(272)	(285)	?	(289)	?	(292)	?	?					
<b>Fr</b> francium 87	<b>Ra</b> radium 88	below	<b>Rf</b> rutherfordium 104	<b>Db</b> dubnium 105	<b>Sg</b> seaborgium 106	<b>Bh</b> bohrium 107	<b>Hs</b> hassium 108	<b>Mt</b> meitnerium 109	<b>Ds</b> darmstadtium 110	<b>Rg</b> roentgenium 111	<b>Cn</b> copernicium 112	?	<b>Fl</b> flerovium 114	?	<b>Lv</b> livermorium 116	?	?					

Key	Atomic mass
	<b>symbol</b>
	name
Atomic number	

139	140	141	144	147	150	152	157	159	162.5	165	167	169	173	175
<b>La</b> lanthanum	<b>Ce</b> cerium	<b>Pr</b> praseodymium	<b>Nd</b> neodymium	<b>Pm</b> promethium	<b>Sm</b> samarium	<b>Eu</b> europium	<b>Gd</b> gadolinium	<b>Tb</b> terbium	<b>Dy</b> dysprosium	<b>Ho</b> holmium	<b>Er</b> erbium	<b>Tm</b> thulium	<b>Yb</b> ytterbium	<b>Lu</b> lutetium
57	58	59	60	61	62	63	64	65	66	67	68	69	70	71
227	232	231	238	237	242	243	247	247	251	254	253	256	254	257
<b>Ac</b> actinium	<b>Th</b> thorium	<b>Pa</b> protactinium	<b>U</b> uranium	<b>Np</b> neptunium	<b>Pu</b> plutonium	<b>Am</b> americium	<b>Cm</b> curium	<b>Bk</b> berkelium	<b>Cf</b> californium	<b>Es</b> einsteinium	<b>Fm</b> fermium	<b>Md</b> mendelevium	<b>No</b> nobelium	<b>Lr</b> lawrencium
89	90	91	92	93	94	95	96	97	98	99	100	101	102	103

1	2												3	4	5	6	7	0

Transition elements

Key

Atomic mass
<b>symbol</b>
name
Atomic number


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<div style="border: 1px solid black; padding: 5px;"> <p><b>K</b> potassium 19</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Ca</b> calcium 20</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Sc</b> scandium 21</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Ti</b> titanium 22</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>V</b> vanadium 23</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Cr</b> chromium 24</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Mn</b> manganese 25</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Fe</b> iron 26</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Co</b> cobalt 27</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Ni</b> nickel 28</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Cu</b> copper 29</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Zn</b> zinc 30</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Ga</b> gallium 31</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Ge</b> germanium 32</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>As</b> arsenic 33</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Se</b> selenium 34</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Br</b> bromine 35</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Kr</b> krypton 36</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Rb</b> rubidium 37</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Sr</b> strontium 38</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Y</b> yttrium 39</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Zr</b> zirconium 40</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Nb</b> niobium 41</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Mo</b> molybdenum 42</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>(98) <b>Tc</b> technetium 43</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Ru</b> ruthenium 44</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Rh</b> rhodium 45</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Pd</b> palladium 46</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Ag</b> silver 47</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Cd</b> cadmium 48</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>In</b> indium 49</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Sn</b> tin 50</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Sb</b> antimony 51</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Te</b> tellurium 52</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>I</b> iodine 53</p> </div>	<div style="border: 1px solid black; 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Key

Atomic mass
<b>symbol</b>
name
Atomic number

<div style="border: 1px solid black; padding: 5px;"> <p><b>La</b> lanthanum 57</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Ce</b> cerium 58</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Pr</b> praseodymium 59</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Nd</b> neodymium 60</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Pm</b> promethium 61</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Sm</b> samarium 62</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Eu</b> europium 63</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Gd</b> gadolinium 64</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p><b>Tb</b> terbium 65</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>162.5 <b>Dy</b> dysprosium 66</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>165 <b>Ho</b> holmium 67</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>167 <b>Er</b> erbium 68</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>169 <b>Tm</b> thulium 69</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>173 <b>Yb</b> ytterbium 70</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>175 <b>Lu</b> lutetium 71</p> </div>
<div style="border: 1px solid black; padding: 5px;"> <p>227 <b>Ac</b> actinium 89</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>232 <b>Th</b> thorium 90</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>231 <b>Pa</b> protactinium 91</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>238 <b>U</b> uranium 92</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>237 <b>Np</b> neptunium 93</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>242 <b>Pu</b> plutonium 94</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>243 <b>Am</b> americium 95</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>247 <b>Cm</b> curium 96</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>247 <b>Bk</b> berkelium 97</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>251 <b>Cf</b> californium 98</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>254 <b>Es</b> einsteinium 99</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>253 <b>Fm</b> fermium 100</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>256 <b>Md</b> mendelevium 101</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>254 <b>No</b> nobelium 102</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>257 <b>Lr</b> lawrencium 103</p> </div>

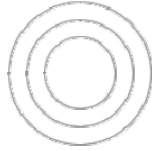
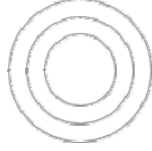
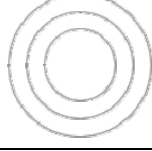
Periodic tables – for colouring or cut and paste!

1	2	Transition elements										3	4	5	6	7	0														
		<table border="1" style="margin: auto;"> <tr><td>H</td></tr> <tr><td>hydrogen</td></tr> </table>										H	hydrogen																		4 <b>He</b> helium 2
H																															
hydrogen																															
7 <b>Li</b> lithium 3	9 <b>Be</b> beryllium 4																			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						
23 <b>Na</b> sodium 11	24 <b>Mg</b> magnesium 12																			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						
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	(285) <b>Cn</b> copernicium 112	?	(289) <b>Fl</b> flerovium 114	?	(292) <b>Lv</b> livermorium 116	?	?	113	114	115	116	117	118								

Key	Atomic mass
	<b>symbol</b>
	name
Atomic number	

The lanthanoids (atomic numbers 58-71) and the actinoids (atomic numbers 90-103) have been omitted.  
The relative atomic masses of copper and chlorine have not been rounded to the nearest whole number.

Group I

Title	Number of protons	Number of electrons	Number of neutrons	Electron configuration e.g. 2,8,8	Visual display of electrons	Uses
7 <b>Li</b> lithium 3						
23 <b>Na</b> sodium 11						
39 <b>K</b> potassium 19						
85 <b>Rb</b> rubidium 37						
133 <b>Cs</b> caesium 55						
(223) <b>Fr</b> francium 87						

Patterns within the group

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Reactivity

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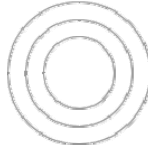
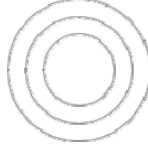

Properties

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Group 0

Title	Number of protons	Number of electrons	Number of neutrons	Electron configuration	Visual display of electrons	Uses
4 <b>He</b> helium 2						
20 <b>Ne</b> neon 10						
40 <b>Ar</b> argon 18						
84 <b>Kr</b> krypton 36						
131 <b>Xe</b> xenon 54						
(222) <b>Rn</b> Radon 86						

Patterns within the group

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Reactivity

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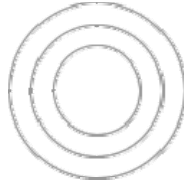
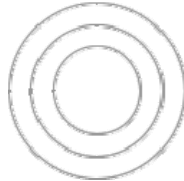
Properties

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Group 7

Title	Number of protons	Number of electrons	Number of neutrons	Electron configuration	Visual display of electrons	Uses
19 <b>F</b> fluorine 9						
35.5 <b>Cl</b> chlorine 17						
80 <b>Br</b> bromine 35						
127 <b>I</b> iodine 53						
(210) <b>At</b> astatine 85						

Patterns within the group

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Reactivity

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Properties

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