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### Periodic table of the elements / Tableau périodique des éléments National Research Council of Canada

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# PERIODIC TABLE OF THE ELEMENTS

Group 1																	Group 18	
1	<b>H</b> 1.008 [1.0078-1.0082] hydrogen																	2
2	<b>Li</b> 6.94 [6.938-6.997] lithium	<b>Be</b> 9.0122 beryllium																
3	<b>Na</b> 22.990 sodium	<b>Mg</b> 24.305 [24.304-24.307] magnesium																
4	<b>K</b> 39.098 potassium	<b>Ca</b> 40.078(4) calcium	<b>Sc</b> 44.956 scandium	<b>Ti</b> 47.867 titanium	<b>V</b> 50.942 vanadium	<b>Cr</b> 51.996 chromium	<b>Mn</b> 54.938 manganese	<b>Fe</b> 55.845(2) iron	<b>Co</b> 58.933 cobalt	<b>Ni</b> 58.693 nickel	<b>Cu</b> 63.546(3) copper	<b>Zn</b> 65.38(2) zinc	<b>Ga</b> 69.723 gallium	<b>Ge</b> 72.630(8) germanium	<b>As</b> 74.922 arsenic	<b>Se</b> 78.971(8) selenium	<b>Br</b> 79.904 [79.901-79.907] bromine	<b>Kr</b> 83.798(2) krypton
5	<b>Rb</b> 85.468 rubidium	<b>Sr</b> 87.62 strontium	<b>Y</b> 88.906 yttrium	<b>Zr</b> 91.224(2) zirconium	<b>Nb</b> 92.906 niobium	<b>Mo</b> 95.95 molybdenum	<b>Tc</b> (98) technetium	<b>Ru</b> 101.07(2) ruthenium	<b>Rh</b> 102.91 rhodium	<b>Pd</b> 106.42 palladium	<b>Ag</b> 107.87 silver	<b>Cd</b> 112.41 cadmium	<b>In</b> 114.82 indium	<b>Sn</b> 118.71 tin	<b>Sb</b> 121.76 antimony	<b>Te</b> 127.60(3) tellurium	<b>I</b> 126.90 iodine	<b>Xe</b> 131.29 xenon
6	<b>Cs</b> 132.91 caesium	<b>Ba</b> 137.33 barium	<b>La-Lu</b> 57-71 lanthanides	<b>Hf</b> 178.49(2) hafnium	<b>Ta</b> 180.95 tantalum	<b>W</b> 183.84 tungsten	<b>Re</b> 186.21 rhenium	<b>Os</b> 190.23(3) osmium	<b>Ir</b> 192.22 iridium	<b>Pt</b> 195.08 platinum	<b>Au</b> 196.97 gold	<b>Hg</b> 200.59 mercury	<b>Tl</b> 204.38 [204.38-204.39] thallium	<b>Pb</b> 207.2 lead	<b>Bi</b> 208.98 bismuth	<b>Po</b> (209) polonium	<b>At</b> (210) astatine	<b>Rn</b> (222) radon
7	<b>Fr</b> (223) francium	<b>Ra</b> (226) radium	<b>Ac-Lr</b> 89-103 actinides	<b>Rf</b> (267) rutherfordium	<b>Db</b> (268, 270) dubnium	<b>Sg</b> (269, 271) seaborgium	<b>Bh</b> (270, 274) bohrium	<b>Hs</b> (269, 277) hassium	<b>Mt</b> (276, 278) meitnerium	<b>Ds</b> (281) darmstadtium	<b>Rg</b> (281) roentgenium	<b>Cn</b> (285) copernicium	<b>Nh</b> (286) nihonium	<b>Fl</b> (289) flerovium	<b>Mc</b> (288, 289) moscovium	<b>Lv</b> (293) livermorium	<b>Ts</b> (294) tennessine	<b>Og</b> (294) oganesson
				<b>La</b> 57 lanthanum	<b>Ce</b> 58 cerium	<b>Pr</b> 59 praseodymium	<b>Nd</b> 60 neodymium	<b>Pm</b> 61 (145) promethium	<b>Sm</b> 62 150.36(2) samarium	<b>Eu</b> 63 151.96 europium	<b>Gd</b> 64 157.25(3) gadolinium	<b>Tb</b> 65 158.93 terbium	<b>Dy</b> 66 162.50 dysprosium	<b>Ho</b> 67 164.93 holmium	<b>Er</b> 68 167.26 erbium	<b>Tm</b> 69 168.93 thulium	<b>Yb</b> 70 173.05 ytterbium	<b>Lu</b> 71 174.97 lutetium
				<b>Ac</b> 89 (227) actinium	<b>Th</b> 90 232.04 thorium	<b>Pa</b> 91 231.04 protactinium	<b>U</b> 92 238.03 uranium	<b>Np</b> 93 (237) neptunium	<b>Pu</b> 94 (244) plutonium	<b>Am</b> 95 (243) americium	<b>Cm</b> 96 (247) curium	<b>Bk</b> 97 (247) berkelium	<b>Cf</b> 98 (251) californium	<b>Es</b> 99 (252) einsteinium	<b>Fm</b> 100 (257) fermium	<b>Md</b> 101 (258) mendelevium	<b>No</b> 102 (259) nobelium	<b>Lr</b> 103 (262) lawrencium

19 ← Atomic Number

**K** ← Symbol

39,098 ← Relative Atomic Mass

potassium ← Name

Symbol in white: element has no stable nuclides

Values in brackets are the mass numbers of the most stable isotopes

**Colour Legend**

- Alkali metals
- Alkaline earth metals
- Transition metals
- Other metals
- Other non-metals
- Halogens
- Noble gases
- Lanthanides
- Actinides

# TABLEAU PÉRIODIQUE DES ÉLÉMENTS

Groupe																		18																													
1																	2																														
1	<b>H</b> 1,008 [1,0078; 1,0082] hydrogène																	<b>He</b> 4,0026 hélium																													
2	<b>Li</b> 6,94 [6,938; 6,997] lithium	<b>Be</b> 9,0122 béryllium																	<b>B</b> 10,81 [10,806; 10,821] bore	<b>C</b> 12,011 [12,009; 12,012] carbone	<b>N</b> 14,007 [14,006; 14,008] azote	<b>O</b> 15,999 [15,999; 16,000] oxygène	<b>F</b> 18,998 fluor	<b>Ne</b> 20,180 néon																							
3	<b>Na</b> 22,990 sodium	<b>Mg</b> 24,305 [24,304; 24,307] magnésium																	<b>Al</b> 26,982 aluminium	<b>Si</b> 28,085 [28,084; 28,086] silicium	<b>P</b> 30,974 phosphore	<b>S</b> 32,06 [32,059; 32,076] soufre	<b>Cl</b> 35,45 [35,446; 35,457] chlore	<b>Ar</b> 39,95 [39,792; 39,963] argon																							
4	<b>K</b> 39,098 potassium	<b>Ca</b> 40,078(4) calcium	<b>Sc</b> 44,956 scandium	<b>Ti</b> 47,867 titane	<b>V</b> 50,942 vanadium	<b>Cr</b> 51,996 chrome	<b>Mn</b> 54,938 manganèse	<b>Fe</b> 55,845(2) fer	<b>Co</b> 58,933 cobalt	<b>Ni</b> 58,693 nickel	<b>Cu</b> 63,546(3) cuivre	<b>Zn</b> 65,38(2) zinc	<b>Ga</b> 69,723 gallium	<b>Ge</b> 72,630(8) germanium	<b>As</b> 74,922 arsenic	<b>Se</b> 78,971(8) sélénium	<b>Br</b> 79,904 [79,901; 79,907] brome	<b>Kr</b> 83,798(2) krypton																													
5	<b>Rb</b> 85,468 rubidium	<b>Sr</b> 87,62 strontium	<b>Y</b> 88,906 yttrium	<b>Zr</b> 91,224(2) zirconium	<b>Nb</b> 92,906 niobium	<b>Mo</b> 95,95 molybdène	<b>Tc</b> (98) technétium	<b>Ru</b> 101,07(2) ruthénium	<b>Rh</b> 102,91 rhodium	<b>Pd</b> 106,42 palladium	<b>Ag</b> 107,87 argent	<b>Cd</b> 112,41 cadmium	<b>In</b> 114,82 indium	<b>Sn</b> 118,71 étain	<b>Sb</b> 121,76 antimoine	<b>Te</b> 127,60(3) tellure	<b>I</b> 126,90 iode	<b>Xe</b> 131,29 xénon																													
6	<b>Cs</b> 132,91 césium	<b>Ba</b> 137,33 baryum	<b>La-Lu</b> 57-71 lanthanides	<b>Hf</b> 178,49(2) hafnium	<b>Ta</b> 180,95 tantale	<b>W</b> 183,84 tungstène	<b>Re</b> 186,21 rhénium	<b>Os</b> 190,23(3) osmium	<b>Ir</b> 192,22 iridium	<b>Pt</b> 195,08 platine	<b>Au</b> 196,97 or	<b>Hg</b> 200,59 mercure	<b>Tl</b> 204,38 [204,38; 204,39] thallium	<b>Pb</b> 207,2 plomb	<b>Bi</b> 208,98 bismuth	<b>Po</b> (209) polonium	<b>At</b> (210) astate	<b>Rn</b> (222) radon																													
7	<b>Fr</b> (223) francium	<b>Ra</b> (226) radium	<b>Ac-Lr</b> 89-103 actinides	<b>Rf</b> (267) rutherfordium	<b>Db</b> (268; 270) dubnium	<b>Sg</b> (269; 271) seaborgium	<b>Bh</b> (270; 274) bohrium	<b>Hs</b> (269; 277) hassium	<b>Mt</b> (276; 278) meitnérium	<b>Ds</b> (281) darmstadtium	<b>Rg</b> (281) roentgenium	<b>Cn</b> (285) copernicium	<b>Nh</b> (286) nihonium	<b>Fl</b> (289) flérovium	<b>Mc</b> (288; 289) moscovium	<b>Lv</b> (293) livermorium	<b>Ts</b> (294) tenesse	<b>Og</b> (294) ogánesson																													
																		* 57 <b>La</b> 138,91 lanthane		58 <b>Ce</b> 140,12 cérium		59 <b>Pr</b> 140,91 praséodyme		60 <b>Nd</b> 144,24 néodyme		61 <b>Pm</b> (145) prométhium		62 <b>Sm</b> 150,36(2) samarium		63 <b>Eu</b> 151,96 europium		64 <b>Gd</b> 157,25(3) gadolinium		65 <b>Tb</b> 158,93 terbium		66 <b>Dy</b> 162,50 dysprosium		67 <b>Ho</b> 164,93 holmium		68 <b>Er</b> 167,26 erbium		69 <b>Tm</b> 168,93 thulium		70 <b>Yb</b> 173,05 ytterbium		71 <b>Lu</b> 174,97 lutétium	
																		** 89 <b>Ac</b> (227) actinium		90 <b>Th</b> 232,04 thorium		91 <b>Pa</b> 231,04 protactinium		92 <b>U</b> 238,03 uranium		93 <b>Np</b> (237) neptunium		94 <b>Pu</b> (244) plutonium		95 <b>Am</b> (243) américium		96 <b>Cm</b> (247) curium		97 <b>Bk</b> (247) berkélium		98 <b>Cf</b> (251) californium		99 <b>Es</b> (252) einsteinium		100 <b>Fm</b> (257) fermium		101 <b>Md</b> (258) mendélévium		102 <b>No</b> (259) nobélium		103 <b>Lr</b> (262) lawrencium	

19 ← Numéro atomique

**K** ← Symbole

39,098 ← Masse atomique relative

potassium ← Nom

Le symbole en blanc indique l'absence de nucléides stables

Les valeurs entre parenthèses représentent les nombres de masses des isotopes les plus stables

**Légende des couleurs**

- Métaux alcalins
- Métaux alcalino-terreux
- Métaux de transition
- Autres métaux
- Autres éléments non métalliques
- Halogènes
- Gaz rares
- Lanthanides
- Actinides