



University of Nairobi

An English/Kiswahili Periodic Table of the Elements

Mfumo radidia wa elementi



UPPSALA
UNIVERSITET



IYBSSD2022
International Year
of Basic Sciences
for Sustainable Development

Celebrating the International Year of Basic Science for Sustainable Development (IYBSSD2022)

Group	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
Period	1 <div>1.0079 1 H Hydrogen (Hydrojeni) 1s¹</div>	2 <div>2.20 4 He Helium (Heli) 1s²</div>	<div>Electronegativity</div> <div>A Z Symbol</div> <div>English name (Kiswahili name)</div> <div>Electronic configuration</div>																	
	2 <div>6.941 3 Li Lithium (Lithi) [He] 2s¹</div>	<div>9.0122 4 Be Beryllium (Berili) [He] 2s²</div>	<div>H Gas (Gesi)</div>	<div>Be Solid (Mango)</div>										<div>10.811 5 B Boron (Boroni) [He] 2s² 2p¹</div>	<div>12.011 6 C Carbon (Kaboni) [He] 2s² 2p²</div>	<div>14.007 7 N Nitrogen (Nitrojeni) [He] 2s² 2p³</div>	<div>15.999 8 O Oxygen (Oksijeni) [He] 2s² 2p⁴</div>	<div>18.998 9 F Fluorine (Florini) [He] 2s² 2p⁵</div>	<div>20.1797 10 Ne Neon (Neoni) [He] 2s² 2p⁶</div>	
	3 <div>22.9898 11 Na Sodium (Natiri) [Ne] 3s¹</div>	<div>24.3050 12 Mg Magnesium (Magesi) [Ne] 3s²</div>	<div>Br Liquid (Vioevu)</div>	<div>Rf Unknown</div>										<div>26.9815 13 Al Aluminum (Alumini) [Ne] 3s² 3p¹</div>	<div>28.0855 14 Si Silicon (Siliki) [Ne] 3s² 3p²</div>	<div>30.9736 15 P Phosphorus (Posferi) [Ne] 3s² 3p³</div>	<div>32.065 16 S Sulfur (Sulfuri) [Ne] 3s² 3p⁴</div>	<div>35.453 17 Cl Chlorine (Chlorini) [Ne] 3s² 3p⁵</div>	<div>39.948 18 Ar Argon (Argoni) [Ne] 3s² 3p⁶</div>	
	4 <div>39.0983 19 K Potassium (Kali) [Ar] 4s¹</div>	<div>40.078 20 Ca Calcium (Kalisi) [Ar] 4s²</div>	<div>44.9559 21 Sc Scandium (Skandi) [Ar] 3d¹ 4s²</div>	<div>47.867 22 Ti Titanium (Titani) [Ar] 3d² 4s²</div>	<div>50.9415 23 V Vanadium (Vanadi) [Ar] 3d³ 4s²</div>	<div>51.9961 24 Cr Chromium (Chromi) [Ar] 3d⁵ 4s¹</div>	<div>54.9380 25 Mn Manganese (Manganisi) [Ar] 3d⁵ 4s²</div>	<div>55.845 26 Fe Iron (Chuma) [Ar] 3d⁶ 4s²</div>	<div>58.9332 27 Co Cobalt (Kobalti) [Ar] 3d⁷ 4s²</div>	<div>58.6934 28 Ni Nickel (Nikeli) [Ar] 3d⁸ 4s²</div>	<div>63.546 29 Cu Copper (Shaba) [Ar] 3d¹⁰ 4s¹</div>	<div>65.409 30 Zn Zinc (Zinki) [Ar] 3d¹⁰ 4s²</div>	<div>69.723 31 Ga Gallium (Gali) [Ar] 3d¹⁰ 4s² 4p¹</div>	<div>72.64 32 Ge Germanium (Gerimani) [Ar] 3d¹⁰ 4s² 4p²</div>	<div>74.9216 33 As Arsenic (Asenia) [Ar] 3d¹⁰ 4s² 4p³</div>	<div>78.96 34 Se Selenium (Seleni) [Ar] 3d¹⁰ 4s² 4p⁴</div>	<div>79.904 35 Br Bromine (Bromi) [Ar] 3d¹⁰ 4s² 4p⁵</div>	<div>83.798 36 Kr Krypton (Kriptoni) [Ar] 3d¹⁰ 4s² 4p⁶</div>		
	5 <div>85.4678 37 Rb Rubidium (Rubidi) [Kr] 5s¹</div>	<div>87.62 38 Sr Strontium (Stronti) [Kr] 5s²</div>	<div>88.9059 39 Y Yttrium (Ytri) [Ar] 4d¹ 5s²</div>	<div>91.224 40 Zr Zirconium (Zirikoni) [Kr] 4d² 5s²</div>	<div>92.9064 41 Nb Niobium (Niobi) [Kr] 4d⁴ 5s¹</div>	<div>95.94 42 Mo Molybdenum (Molybdeni) [Kr] 4d⁵ 5s¹</div>	<div>98 43 Tc Technetium (Tekineti) [Kr] 4d⁵ 5s²</div>	<div>101.07 44 Ru Ruthenium (Rutheni) [Kr] 4d⁷ 5s¹</div>	<div>102.9055 45 Rh Rhodium (Rodi) [Kr] 4d⁸ 5s¹</div>	<div>106.42 46 Pd Palladium (Paladi) [Kr] 4d¹⁰</div>	<div>107.8682 47 Ag Silver (Fedha) [Kr] 4d¹⁰ 5s¹</div>	<div>112.411 48 Cd Cadmium (Cadimi) [Kr] 4d¹⁰ 5s²</div>	<div>114.818 49 In Indium (Indi) [Kr] 4d¹⁰ 5s² 5p¹</div>	<div>118.710 50 Sn Tin (Stani) [Kr] 4d¹⁰ 5s² 5p²</div>	<div>121.760 51 Sb Antimony (Stibi) [Kr] 4d¹⁰ 5s² 5p³</div>	<div>127.60 52 Te Tellurium (Teluri) [Kr] 4d¹⁰ 5s² 5p⁴</div>	<div>126.9045 53 I Iodine (Iodini) [Kr] 4d¹⁰ 5s² 5p⁵</div>	<div>131.293 54 Xe Xenon (Xenoni) [Kr] 4d¹⁰ 5s² 5p⁶</div>		
	6 <div>132.9051 55 Cs Cesium (Caesi) [Xe] 6s¹</div>	<div>137.327 56 Ba Barium (Bari) [Xe] 6s²</div>	Lanthanide Series	<div>178.49 72 Hf Hafnium (Hafni) [Xe] 4f¹⁴ 5d² 6s²</div>	<div>180.9479 73 Ta Tantalum (Tantali) [Xe] 4f¹⁴ 5d³ 6s²</div>	<div>183.84 74 W Tungsten (Wolframi) [Xe] 4f¹⁴ 5d⁴ 6s²</div>	<div>186.207 75 Re Rhenium (Reni) [Xe] 4f¹⁴ 5d⁵ 6s²</div>	<div>190.23 76 Os Osmium (Osmi) [Xe] 4f¹⁴ 5d⁶ 6s²</div>	<div>192.217 77 Ir Iridium (Iridi) [Xe] 4f¹⁴ 5d⁷ 6s²</div>	<div>195.078 78 Pt Platinum (Platini) [Xe] 4f¹⁴ 5d⁹ 6s¹</div>	<div>196.9666 79 Au Gold (Dhahabu) [Xe] 4f¹⁴ 5d¹⁰ 6s¹</div>	<div>200.59 80 Hg Mercury (Zebaki) [Xe] 4f¹⁴ 5d¹⁰ 6s²</div>	<div>204.3833 81 Tl Thallium (Tali) [Xe] 4f¹⁴ 5d¹⁰ 6s² 6p¹</div>	<div>207.2 82 Pb Lead (Risasi) [Xe] 4f¹⁴ 5d¹⁰ 6s² 6p²</div>	<div>208.9804 83 Bi Bismuth (Bismuthi) [Xe] 4f¹⁴ 5d¹⁰ 6s² 6p³</div>	<div>209 84 Po Polonium (Poloni) [Xe] 4f¹⁴ 5d¹⁰ 6s² 6p⁴</div>	<div>(210) 85 At Astatine (Astatini) [Xe] 4f¹⁴ 5d¹⁰ 6s² 6p⁵</div>	<div>(222) 86 Rn Radon (Radoni) [Xe] 4f¹⁴ 5d¹⁰ 6s² 6p⁶</div>		
	7 <div>(223) 87 Fr Francium (Fransi) [Rn] 7s¹</div>	<div>(226) 88 Ra Radium (Radi) [Rn] 7s²</div>	Actinide Series	<div>(261) 104 Rf Rutherfordium (Rutherfordi) [Rn] 5f¹⁴ 6d² 7s²</div>	<div>(268) 105 Db Dubnium (Dubni) [Rn] 5f¹⁴ 6d³ 7s²</div>	<div>(269) 106 Sg Seaborgium (Seaborgi) [Rn] 5f¹⁴ 6d⁴ 7s²</div>	<div>(270) 107 Bh Bohrium (Bohri) [Rn] 5f¹⁴ 6d⁵ 7s²</div>	<div>(269) 108 Hs Hassium (Hassi) [Rn] 5f¹⁴ 6d⁶ 7s²</div>	<div>(278) 109 Mt Meitnerium (Meitneri) [Rn] 5f¹⁴ 6d⁷ 7s²</div>	<div>(281) 110 Ds Darmstadtium (Darmstadtii) [Rn] 5f¹⁴ 6d⁸ 7s²</div>	<div>(280) 111 Rg Roentgenium (Roentgeni) [Rn] 5f¹⁴ 6d⁹ 7s²</div>	<div>(285) 112 Cn Copernicium (Copernicium) [Rn] 5f¹⁴ 6d¹⁰ 7s²</div>	<div>(286) 113 Nh Nihonium (Nihonium) [Rn] 5f¹⁴ 6d¹⁰ 7s² 7p¹</div>	<div>(289) 114 Fl Flerovium (Flerovium) [Rn] 5f¹⁴ 6d¹⁰ 7s² 7p²</div>	<div>(290) 115 Mc Moscovium (Moscovium) [Rn] 5f¹⁴ 6d¹⁰ 7s² 7p³</div>	<div>(292) 116 Lv Livermorium (Livermorium) [Rn] 5f¹⁴ 6d¹⁰ 7s² 7p⁴</div>	<div>(294) 117 Ts Tennessine (Tennessine) [Rn] 5f¹⁴ 6d¹⁰ 7s² 7p⁵</div>	<div>(294) 118 Og Oganesson (Oganesson) [Rn] 5f¹⁴ 6d¹⁰ 7s² 7p⁶</div>		
<div>☢ Radioactive</div> <div>☄ Synthetic</div> <div>() Atomic mass for long lived isotope</div>			6 <div>138.9055 57 La Lanthanum (Lanthani) [Xe] 5d¹ 6s²</div>	<div>140.116 58 Ce Cerium (Seri) [Xe] 4f¹ 5d¹ 6s²</div>	<div>140.9077 59 Pr Praseodymium (Praseodymi) [Xe] 4f² 6s²</div>	<div>144.242 60 Nd Neodymium (Neodymi) [Xe] 4f⁴ 6s²</div>	<div>(145) 61 Pm Promethium (Promethi) [Xe] 4f⁵ 6s²</div>	<div>150.36 62 Sm Samarium (Samari) [Xe] 4f⁶ 6s²</div>	<div>151.964 63 Eu Europium (Europi) [Xe] 4f⁷ 6s²</div>	<div>157.25 64 Gd Gadolinium (Gadolini) [Xe] 4f⁷ 5d¹ 6s²</div>	<div>158.9253 65 Tb Terbium (Taribi) [Xe] 4f⁹ 6s²</div>	<div>162.500 66 Dy Dysprosium (Disprosi) [Xe] 4f¹⁰ 6s²</div>	<div>164.9303 67 Ho Holmium (Homi) [Xe] 4f¹¹ 6s²</div>	<div>167.259 68 Er Erbium (Eربي) [Xe] 4f¹² 6s²</div>	<div>168.9342 69 Tm Thulium (Thuli) [Xe] 4f¹³ 6s²</div>	<div>173.045 70 Yb Ytterbium (Yitebi) [Xe] 4f¹⁴ 6s²</div>	<div>174.967 71 Lu Lutetium (Luteti) [Xe] 4f¹⁴ 5d¹ 6s²</div>			
			7 <div>(227) 89 Ac Actinium (Aktini) [Rn] 6d¹ 7s²</div>	<div>232.038 90 Th Thorium (Thori) [Rn] 6d² 7s²</div>	<div>231.0359 91 Pa Protactinium (Protaktini) [Rn] 5f² 6d¹ 7s²</div>	<div>238.0289 92 U Uranium (Urani) [Rn] 5f³ 6d¹ 7s²</div>	<div>(237) 93 Np Neptunium (Neptun) [Rn] 5f⁴ 6d¹ 7s²</div>	<div>(244) 94 Pu Plutonium (Plutoni) [Rn] 5f⁶ 7s²</div>	<div>(243) 95 Am Americium (Ameriki) [Rn] 5f⁷ 7s²</div>	<div>(247) 96 Cm Curium (Curi) [Rn] 5f⁸ 6d¹ 7s²</div>	<div>(247) 97 Bk Berkelium (Berkeli) [Rn] 5f⁹ 7s²</div>	<div>(251) 98 Cf Californium (Kalifoni) [Rn] 5f¹⁰ 7s²</div>	<div>(252) 99 Es Einsteinium (Einsteinii) [Rn] 5f¹¹ 7s²</div>	<div>(257) 100 Fm Fermium (Fermi) [Rn] 5f¹² 7s²</div>	<div>(258) 101 Md Mendelevium (Mendelevi) [Rn] 5f¹³ 7s²</div>	<div>(259) 102 No Nobelium (Nobeli) [Rn] 5f¹⁴ 7s²</div>	<div>(262) 103 Lr Lawrencium (Lawirensi) [Rn] 5f¹⁴ 6d¹ 7s²</div>			
	Alkali Metals (Metali Za Alkali)		Alkaline Earth Metals (Metali Ardhi Za Alkali)		Transition Metals (Metali Muunganisho)		Lanthanides (Lanthanidi)		Actinides (Aktinidi)		Metalloids		Post Transition Metals (Metali Nyingine)		Other Nonmetals (Zisizometali zinginezo)		Halogens		Noble Gases (Gesi Thamani)	

