

# The Periodic Table of the Elements

1

2

3

4

5

6

7

0

1

H

hydrogen

1

7

Li

lithium

3

23

Na

sodium

11

39

K

potassium

19

85

Rb

rubidium

37

133

Cs

caesium

55

[223]

Fr

francium

87

9

Be

beryllium

4

24

Mg

magnesium

12

40

Ca

calcium

20

88

Sr

strontium

38

137

Ba

barium

56

[226]

Ra

radium

88

45

Sc

scandium

21

89

Y

yttrium

39

139

La\*

lanthanum

57

[227]

Ac\*

actinium

89

48

Ti

titanium

22

91

Zr

zirconium

40

178

Hf

hafnium

72

[261]

Rf

rutherfordium

104

51

V

vanadium

23

93

Nb

niobium

41

181

Ta

tantalum

73

[262]

Db

dubnium

105

52

Cr

chromium

24

96

Mo

molybdenum

42

184

W

tungsten

74

[266]

Sg

seaborgium

106

55

Mn

manganese

25

[98]

Tc

technetium

43

186

Re

rhenium

75

[264]

Bh

bohrium

107

56

Fe

iron

26

101

Ru

ruthenium

44

190

Os

osmium

76

[277]

Hs

hassium

108

59

Co

cobalt

27

103

Rh

rhodium

45

192

Ir

iridium

77

[268]

Mt

meitnerium

109

59

Ni

nickel

28

106

Pd

palladium

46

195

Pt

platinum

78

[271]

Ds

darmstadtium

110

63.5

Cu

copper

29

108

Ag

silver

47

197

Au

gold

79

[272]

Rg

roentgenium

111

65

Zn

zinc

30

112

Cd

cadmium

48

201

Hg

mercury

80

Elements with atomic numbers 112–116 have been reported but not fully authenticated

11

B

boron

5

27

Al

aluminium

13

70

Ga

gallium

31

204

Tl

thallium

81

12

C

carbon

6

28

Si

silicon

14

73

Ge

germanium

32

207

Pb

lead

82

14

N

nitrogen

7

31

P

phosphorus

15

75

As

arsenic

33

209

Bi

bismuth

83

16

O

oxygen

8

32

S

sulfur

16

79

Se

selenium

34

[209]

Po

polonium

84

19

F

fluorine

9

35.5

Cl

chlorine

17

80

Br

bromine

35

[210]

At

astatine

85

20

Ne

neon

10

40

Ar

argon

18

84

Kr

krypton

36

[222]

Rn

radon

86

relative atomic mass

atomic symbol

name

atomic (proton) 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.***