

# 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

9

Be

beryllium

4

24

Mg

magnesium

12

11

B

boron

5

27

Al

aluminium

13

12

C

carbon

6

28

Si

silicon

14

14

N

nitrogen

7

31

P

phosphorus

15

16

O

oxygen

8

32

S

sulfur

16

19

F

fluorine

9

35.5

Cl

chlorine

17

20

Ne

neon

10

40

Ar

argon

18

39

K

potassium

19

40

Ca

calcium

20

45

Sc

scandium

21

48

Ti

titanium

22

51

V

vanadium

23

52

Cr

chromium

24

55

Mn

manganese

25

56

Fe

iron

26

59

Co

cobalt

27

59

Ni

nickel

28

63.5

Cu

copper

29

65

Zn

zinc

30

70

Ga

gallium

31

73

Ge

germanium

32

75

As

arsenic

33

79

Se

selenium

34

80

Br

bromine

35

84

Kr

krypton

36

85

Rb

rubidium

37

88

Sr

strontium

38

89

Y

yttrium

39

91

Zr

zirconium

40

93

Nb

niobium

41

96

Mo

molybdenum

42

[98]

Tc

technetium

43

101

Ru

ruthenium

44

103

Rh

rhodium

45

106

Pd

palladium

46

108

Ag

silver

47

112

Cd

cadmium

48

115

In

indium

49

119

Sn

tin

50

122

Sb

antimony

51

128

Te

tellurium

52

127

I

iodine

53

131

Xe

xenon

54

133

Cs

caesium

55

137

Ba

barium

56

139

La\*

lanthanum

57

178

Hf

hafnium

72

181

Ta

tantalum

73

184

W

tungsten

74

186

Re

rhenium

75

190

Os

osmium

76

192

Ir

iridium

77

195

Pt

platinum

78

197

Au

gold

79

201

Hg

mercury

80

204

Tl

thallium

81

207

Pb

lead

82

209

Bi

bismuth

83

[209]

Po

polonium

84

[210]

At

astatine

85

[222]

Rn

radon

86

[223]

Fr

francium

87

[226]

Ra

radium

88

[227]

Ac\*

actinium

89

[261]

Rf

rutherfordium

104

[262]

Db

dubnium

105

[266]

Sg

seaborgium

106

[264]

Bh

bohrium

107

[277]

Hs

hassium

108

[268]

Mt

meitnerium

109

[271]

Ds

darmstadtium

110

[272]

Rg

roentgenium

111

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

*\* 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.***