

Contents

4

What is an element?

6

Inside an atom

8

The periodic table

10

Elemental groups and sets

12-13

Hydrogen

14-15

Alkali Metals

Lithium, Sodium

16-17

Potassium, Rubidium, Caesium, Francium

18-19

Alkaline Earth Metals

Beryllium, Magnesium

20-21

Calcium, Strontium, Barium, Radium

22-23

Transition Metals

Titanium, Scandium, Vanadium, Chromium

24-25

Manganese, Iron, Cobalt, Nickel

26-27

Copper, Zinc, Yttrium, Zirconium, Molybdenum

28-29

Niobium, Technetium, Ruthenium, Rhodium,

Palladium, Silver

30-31

Cadmium, Hafnium, Tantalum, Tungsten,

Osmium, Rhenium, Iridium

32-33

Platinum, Rutherfordium, Mercury, Gold

34-35

Dubnium, Seaborgium, Bohrium, Hassium,

Meitnerium, Darmstadtium, Roentgenium, Copernicium

36-37

Lanthanides

Lanthanum, Neodymium, Promethium,

Cerium, Praseodymium, Samarium, Europium

38-39

Gadolinium, Terbium, Dysprosium, Holmium,
Erbium, Thulium, Ytterbium, Lutetium

40-41

Actinides

Thorium, Actinium, Protactinium,

Neptunium, Americium

42-43

Uranium, Plutonium

44-45

Curium, Californium, Berkelium, Einsteinium,
Fermium, Nobelium, Mendelevium, Lawrencium

46-47

The Boron Group

Aluminium, Boron

48-49

Gallium, Indium, Thallium, Nihonium

50-51

The Carbon Group

Carbon, Silicon

52-53

Tin, Germanium, Flerovium, Lead

54-55

The Nitrogen Group

Nitrogen, Phosphorus

56-57

Arsenic, Antimony, Bismuth, Moscovium

58-59

The Oxygen Group

Oxygen

60-61

Selenium, Tellurium, Sulfur, Polonium, Livermorium

62-63

Halogens

Chlorine, Fluorine

64-65

Bromine, Iodine, Astatine, Tennessine

66-67

Noble Gases

Helium, Neon

68-69

Argon, Krypton, Oganesson, Xenon, Radon

70-71

Glossary

72

Index