



THE PERIODIC TABLE OF ELEMENTS

ELEMENTS ARE THE MATERIALS THAT MAKE UP EVERYTHING IN THE WORLD.

An element is a substance that cannot be broken down into simpler substances. Every element is made up of its own type of atom.

The smallest possible piece of an element is called an atom.

THERE ARE 118 ELEMENTS.

The Periodic Table is a chart that was invented by a Russian Chemist in the 1860s. All of the elements are arranged based on their properties.

Helium is named after the Greek word for Sun. (Helios)

The elements are arranged in rows and columns. The horizontal rows (which go from left to right) are called **periods** and the vertical columns (from top to bottom) are called **groups**.

The Latin word for gold is 'aurum', which is why gold has the symbol Au on the chart.

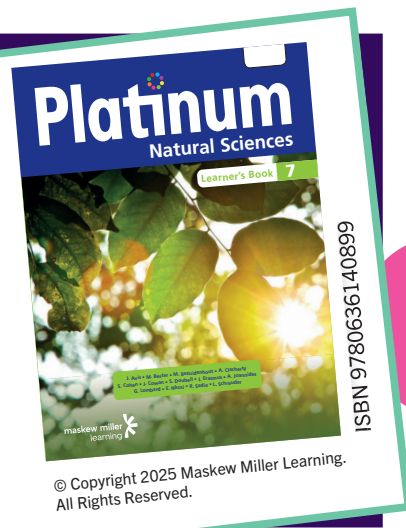
1 H Hydrogen																	2 He Helium
3 Li Lithium	4 Be Beryllium															10 Ne Neon	
11 Na Sodium	12 Mg Magnesium															18 Ar Argon	
19 K Potassium	20 Ca Calcium	21 Sc Scandium	22 Ti Titanium	23 V Vanadium	24 Cr Chromium	25 Mn Manganese	26 Fe Iron	27 Co Cobalt	28 Ni Nickel	29 Cu Copper	30 Zn Zinc	31 Ga Gallium	32 Ge Germanium	33 As Arsenic	34 Se Selenium	35 Br Bromine	36 Kr Krypton
37 Rb Rubidium	38 Sr Strontium	39 Y Yttrium	40 Zr Zirconium	41 Nb Niobium	42 Mo Molybdenum	43 Tc Technetium	44 Ru Ruthenium	45 Rh Rhodium	46 Pd Palladium	47 Ag Silver	48 Cd Cadmium	49 In Indium	50 Sn Tin	51 Sb Antimony	52 Te Tellurium	53 I Iodine	54 Xe Xenon
55 Cs Caesium	56 Ba Barium	57 La Lanthanum	72 Hf Hafnium	73 Ta Tantalum	74 W Tungsten	75 Re Rhenium	76 Os Osmium	77 Ir Iridium	78 Pt Platinum	79 Au Gold	80 Hg Mercury	81 Tl Thallium	82 Pb Lead	83 Bi Bismuth	84 Po Polonium	85 At Astatine	86 Rn Radon
87 Fr Francium	88 Ra Radium	89 Ac Actinium	104 Rf Rutherfordium	105 Db Dubnium	106 Sg Seaborgium	107 Bh Bohrium	108 Hs Hassium	109 Mt Meitnerium	110 Ds Darmstadtium	111 Rg Roentgenium	112 Cn Copernicium	113 Nh Nihonium	114 Fl Flerovium	115 Mc Moscovium	116 Lv Livermorium	117 Ts Tennessine	118 Og Oganesson

THE FIRST 20 ELEMENTS OF THE PERIODIC TABLE ARE:

- | | | | |
|-------------------|-----------------|-------------------|-------------------|
| 1 Hydrogen (H) | 2 Helium (He) | 3 Lithium (Li) | 4 Beryllium (Be) |
| 5 Boron (B) | 6 Carbon (C) | 7 Nitrogen (N) | 8 Oxygen (O) |
| 9 Fluorine (F) | 10 Neon (Ne) | 11 Sodium (Na) | 12 Magnesium (Mg) |
| 13 Aluminium (Al) | 14 Silicon (Si) | 15 Phosphorus (P) | 16 Sulfur (S) |
| 17 Chlorine (Cl) | 18 Argon (Ar) | 19 Potassium (K) | 20 Calcium (Ca) |

Uranium and plutonium are named after the planets Uranus and Pluto.

Chlorine comes from the Greek word 'khloros' which means yellow/green, the colour of chlorine gas.



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