Unit Overview – Matter 2

Target grade for tests:

You will learn about:

- Periodic table
- Elements
- Compounds
- Balancing equations

Skill focus:

• Interpreting graph to identify trends

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H	2 IIA											13 IIIA	14 IVA	15 VA	16 VIA	VIIA	H
`Li	'Ве											в	°C	'N	° o	F	"N
Lithium 634	Boylium											Soron 1089	Carbon	Nitrogen most	Oxygen	Fluorine watercoso	No rar
"Na	Mg	١.								,,		ੌΑI	"Si	" P	" S	CI	"A
Sodium scannon	Magnesium 36365	m	rie .	ve	vie	viis	viis	viiis	VIIIB	10	12	Aluminium peaestes	Silicon	Phosphorus 30.97330-998	Sulfur scan	Chlorina 35.45	Arg 101
"K	"Ca	"Sc	"Ti	"V	"Cr	Mn	"Fe	"Co	™Ni	"Cu	[®] Zn	"Ga	"Ge	"As	"Se	"Br	™K
Potassium 393960	Calcium 40478	Scandium ecosoon	Titorium enser	Vanodum 50345	Chromium 513961	Munganese Sexosore	(rgn 15,845	Cobult SEX3394	Nichel Station	Copper 43,545	Zino 8538	Gallium 6570	Germanium 10.618	Arsenic Names	Selonium 195911	Bromine 79304	Tity 13
"Rb	*Sr	" Y	[∞] Zr	Nb	Мо	"Тс	"Ru	Rh	°Pd	Ag	°Cd	[®] In	[®] Sn	"Sb	"Te	53	X
Rubidium 15.4070	Strontium #382	Ythium 6630384	Zirconium (K2)4	Notium 103007	Molybdenum 9529	Technotium (HC)	Ruthenium 1918	Rhadium 100,00000	Paladium 15.42	Silver VETWOOD	Cadmium 10,494	Indium THZIB	Tin ea,he	Antimony (2.74)	Tellurium 12100	lodine SS30447	Xe 121
"Cs	[™] Ba	67 - 71 Lanthenoids	"Hf	"Ta	™w	"Re	"Os	" Ir	"Pt	"Au	™Hg	"TI	Pb	⁵ Bi	°Po	"At	"R
Coesium (30.905+0.90	Barlum 100307		Hafrium 1949	Spetplum 10034758	Tungsten 160.04	Rherium M6207	Osmium 190,23	tridium tid.19	Platinum 195084	Gold 100,044000	Meroury 200000	Tralium 20438	Lead 2012	Sistemath 200,000.40	Polonium 0000	Astatine (10)	Re
"Fr	™Ra	89 - 103 Actinoids	™Rf	Ďb	Sg	[®] Bh	Hs	Mt	"Ds	™Rg	[®] Cn	Ν̈́h	"FI	Мс	‴Lv	"Ts	C
Francium	Fedure		Ruherfordium	Dubnium	Seekergum	Bulvium	Hassium	Meltrerium	Derwitedtium	Roemperium	Copersicium	Nhonium	Flerovium	Moscovium	Livernorium	Tennessine	Ogar

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Lanthanum	Cerium	Praseodymium	Neodynium	Ponetium	Samarium	Europium	Gadolinium	Terbium	Dysprosium	Holmium	Ethium	Thelian	Yearsium	Lutefium
89 90		\$1	92	93	94	95	16	97	98 .	99	100	101	102	103
Ac	Th I	Pal	U	Nn	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Nο	Lr
				Neptunium										

Key learning points	
Describe the periodic table	
Identify within the periodic table: metals, non metals, group 1, group 7, group 0.	
Describe groups and periods within the periodic table	
Describe properties of transition metals	
Describe properties of elements based on their position within the periodic table	
Describe the difference between: element, mixture and compounds	
Construct chemical formula	
Name compounds	
Create and balance chemical equations	
Identify the state symbols	

Links to other subjects: Maths and geography

• Identifying patterns in data

Numeracy

- Drawing and interpreting graphs
- Reading a scale and recording measurements

Literacy

• Construct descriptions and explanations.

Key Words

Particle Atom Mixture Element Compound Periodic table Periods Groups Chemical formula **Transition metals** Malleable Ductile Brittle Conductor Alkali metals Halogens Noble gases