

Assessment = ★

Revision

Retrieval, keyword definitions and equation practice.

★ Final assessment

Review of learning

Apply:
 C3 Atomic structure
 C4 The periodic table
 C5-7 Bonding
 C17 Groups in the periodic table
 16+ Atomic orbitals, structure of the periodic table (s, p and d blocks)



composites

Describe composite properties and **explain** why composite properties make them suitable for their uses

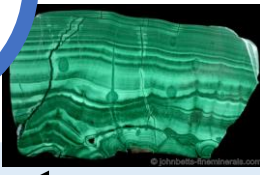
Polymers

Describe polymer properties and **explain** how their properties make them suitable for their uses



Ceramics

Explain why the properties of ceramics make them suitable for their uses



Extracting metals

Predict what metals can be extracted from their reaction with carbon using the reactivity series

The reactivity series

- most reactive
- potassium
 - sodium
 - lithium
 - calcium
 - magnesium
 - aluminium
 - zinc
 - iron
 - lead
 - copper
 - silver
 - gold
- least reactive

↑ Increasing reactivity

Metal displacement reactions

Use the reactivity series to **predict** and **explain** the reactions



Metals and water

Reactions of group 1 metals and how this affects their uses



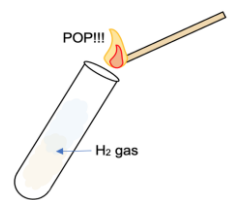
Metals and oxygen

Reactions of metals and oxygen. How this is affected by reactivity



Metals and acids

About the different ways metals react with acid



Retrieve:
 C1-4 Acids and alkalis
 C2-1 The periodic table

Group \ Period	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18														
1	3 Li	4 Be																	2 He													
2	11 Na	12 Mg																	10 Ne													
3	19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr														
4	37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe														
5	55 Cs	56 Ba	57 La	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn
6	87 Fr	88 Ra	89 Ac	90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No	103 Lr	104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt	110 Ds	111 Rg	112 Cn	113 Nh	114 Fl	115 Mc	116 Lv	117 Ts	118 Og
7			101 La	102 Ce	103 Pr	104 Nd	105 Pm	106 Sm	107 Eu	108 Gd	109 Tb	110 Dy	111 Ho	112 Er	113 Tm	114 Yb	115 Lu	116 Hf	117 Ta	118 W	119 Re	120 Os	121 Ir	122 Pt	123 Au	124 Hg	125 Tl	126 Pb	127 Bi	128 Po	129 At	130 Rn
			Lanthanides	57 La	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu														
			Actinides	89 Ac	90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No	103 Lr														

state symbol salt reactivity series reactivity metal reaction metal displacement reaction acid

Make sure you can write definitions for these key terms.

Key terms