

Modified Enlarged 18 pt

OXFORD CAMBRIDGE AND RSA EXAMINATIONS

Wednesday 8 June 2022 – Morning

Level 3 Cambridge Technical in Applied Science

05848/05849/05874

Unit 3: Scientific analysis and reporting

Periodic Table

You must have:

a ruler (cm/mm)

You can use:

a scientific or graphical calculator

an HB pencil

The Periodic Table of the Elements

(1)

(2)

(3)

(4)

(5)

(6)

(7)

(0)

Key	
atomic number	
Symbol	
name	
relative atomic mass	

1		atomic number Symbol name relative atomic mass										2																							
1	H hydrogen 1.0											2																							
3	Li lithium 6.9	4	Be beryllium 9.0									9	F fluorine 19.0	10	Ne neon 20.2																				
11	Na sodium 23.0	12	Mg magnesium 24.3									15	P phosphorus 31.0	16	S sulfur 32.1	17	Cl chlorine 35.5	18	Ar argon 39.9																
19	K potassium 39.1	20	Ca calcium 40.1	21	Sc scandium 45.0	22	Ti titanium 47.9	23	V vanadium 50.9	24	Cr chromium 52.0	25	Mn manganese 54.9	26	Fe iron 55.8	27	Co cobalt 58.9	28	Ni nickel 58.7	29	Cu copper 63.5	30	Zn zinc 65.4	31	Ga gallium 69.7	32	Ge germanium 72.6	33	As arsenic 74.9	34	Se selenium 79.0	35	Br bromine 79.9	36	Kr krypton 83.8
37	Rb rubidium 85.5	38	Sr strontium 87.6	39	Y yttrium 88.9	40	Zr zirconium 91.2	41	Nb niobium 92.9	42	Mo molybdenum 95.9	43	Tc technetium	44	Ru ruthenium 101.1	45	Rh rhodium 102.9	46	Pd palladium 106.4	47	Ag silver 107.9	48	Cd cadmium 112.4	49	In indium 114.8	50	Sn tin 118.7	51	Sb antimony 121.8	52	Te tellurium 127.6	53	I iodine 126.9	54	Xe xenon 131.3
55	Cs caesium 132.9	56	Ba barium 137.3	57–71 lanthanoids		72	Hf hafnium 178.5	73	Ta tantalum 180.9	74	W tungsten 183.8	75	Re rhenium 186.2	76	Os osmium 190.2	77	Ir iridium 192.2	78	Pt platinum 195.1	79	Au gold 197.0	80	Hg mercury 200.6	81	Tl thallium 204.4	82	Pb lead 207.2	83	Bi bismuth 209.0	84	Po polonium	85	At astatine	86	Rn radon
87	Fr francium	88	Ra radium	89–103 actinoids		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			114	Fl flerovium			116	Lv livermorium				

ELEMENTS LISTED IN NUMERICAL ORDER:

1	Hydrogen	H	41	Niobium	Nb	81	Thallium	Tl
2	Helium	He	42	Molybdenum	Mo	82	Lead	Pb
3	Lithium	Li	43	Technetium	Tc	83	Bismuth	Bi
4	Beryllium	Be	44	Ruthenium	Ru	84	Polonium	Po
5	Boron	B	45	Rhodium	Rh	85	Astatine	At
6	Carbon	C	46	Palladium	Pd	86	Radon	Rn
7	Nitrogen	N	47	Silver	Ag	87	Francium	Fr
8	Oxygen	O	48	Cadmium	Cd	88	Radium	Ra
9	Fluorine	F	49	Indium	In	89	Actinium	Ac
10	Neon	Ne	50	Tin	Sn	90	Thorium	Th
11	Sodium	Na	51	Antimony	Sb	91	Protactinium	Pa
12	Magnesium	Mg	52	Tellurium	Te	92	Uranium	U
13	Aluminium	Al	53	Iodine	I	93	Neptunium	Np
14	Silicon	Si	54	Xenon	Xe	94	Plutonium	Pu
15	Phosphorus	P	55	Caesium	Cs	95	Americium	Am
16	Sulfur	S	56	Barium	Ba	96	Curium	Cm
17	Chlorine	Cl	57	Lanthanum	La	97	Berkelium	Bk
18	Argon	Ar	58	Cerium	Ce	98	Californium	Cf
19	Potassium	K	59	Praseodymium	Pr	99	Einsteinium	Es
20	Calcium	Ca	60	Neodymium	Nd	100	Fermium	Fm
21	Scandium	Sc	61	Promethium	Pm	101	Mendelevium	Md
22	Titanium	Ti	62	Samarium	Sm	102	Nobelium	No
23	Vanadium	V	63	Europium	Eu	103	Lawrencium	Lr
24	Chromium	Cr	64	Gadolinium	Gd	104	Rutherfordium	Rf
25	Manganese	Mn	65	Terbium	Tb	105	Dubnium	Db
26	Iron	Fe	66	Dysprosium	Dy	106	Seaborgium	Sg
27	Cobalt	Co	67	Holmium	Ho	107	Bohrium	Bh
28	Nickel	Ni	68	Erbium	Er	108	Hassium	Hs
29	Copper	Cu	69	Thulium	Tm	109	Meitnerium	Mt
30	Zinc	Zn	70	Ytterbium	Yb	110	Darmstadtium	Ds
31	Gallium	Ga	71	Lutetium	Lu	111	Roentgenium	Rg
32	Germanium	Ge	72	Hafnium	Hf	112	Copernicium	Cn
33	Arsenic	As	73	Tantalum	Ta	114	Flerovium	Fl
34	Selenium	Se	74	Tungsten	W	116	Livermorium	Lv
35	Bromine	Br	75	Rhenium	Re			
36	Krypton	Kr	76	Osmium	Os			
37	Rubidium	Rb	77	Iridium	Ir			
38	Strontium	Sr	78	Platinum	Pt			
39	Yttrium	Y	79	Gold	Au			
40	Zirconium	Zr	80	Mercury	Hg			



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