

ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

COMBINED SCIENCE

4003/2

PAPER 2 Theory

SPECIMEN PAPER

2 hours

INSERT

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2 INSERT

	Kev	*58- †90-	Fran 87	55 Cae	Rub 37	Pota 19	11 So 7		
σ	× º	71 Lar 103 A	Fr Francium	133 Cs Caesium	Rubidium 3	39 Potassium	Lithium 4		
		nthano octinoio	226 Ra Radium 88	137 Ba Barium	88 Sr Strontium	40 Ca Calcium	Be Beryllium 4		
b = proton (atomic) Number	a = relative atomic massX= atomic symbol	*58-71 Lanthanoid series †90-103 Actinoid series	227 Ac Actinium 89 †	Lanthanum	89 Y Yttrium	45 Sc Scandium			
c) Number	c mass			178 Hf Hafnium	91 Zr Zirconium 40	48 Ti Titanium			
Thorium 90	232 Th	140 Ce Cerium		Ta Ta Tantalum	93 Nb Niobium	51 V Vanadium 23			
Protactinium 91	Pa	141 Pr Praseodymium 59		184 W Tungsten	96 Mo Molybdenum	52 Cr Chromium			
Uranium 92	238 U	Neodymium 60		186 Re Rhenium	Tc Technetium 43	Mn Manganese			
Neptunium 93	N p	Pm Promethium 61		190 OS Osmium	101 Ru Ruthenium	56 Fe Iron		1 Hydrogen	
Plutonium 94	Pu	Sm Samarium		192 Ir Iridium	103 Rh Rhodium	59 Co Cobalt		٩	٥
Americium 95	Am	152 Eu Europium 63		195 Pt Platinum 78	106 Pd Palladium	59 Ni Nickel		Group	5
Curium 96	Cm	Gadolinium 64		197 Au Gold	108 Ag Silver	64 Cu Copper			
Berkelium 97	Вĸ	159 Tb Terbium		201 Hg Mercury 80	112 Cd Cadmium	65 Zn Zinc			
Californium 98	Çţ	Dy Dysprosium 66		204 T ! Thallium	115 In Indium	70 Ga Gallium	Boron 5	=	
Einstenium 99	Es	165 Ho Holmium 67		207 Pb Lead	119 Sn Tin	73 Ge Germanium	Carbon 6 28 Silicon		
Fermium 100	Fm	167 Er Erbium 68		209 Bi Bismuth	122 Sb Antimony 51	75 As Arsenic	Nitrogen 7	>	
Mendelevium 101	М	Tm Thulium		Po Polonium 84	128 Te Tellurium	79 Se Selenium	Oxygen 8	<u> </u>	
10.2 N	No	173 Yb Ytterbium		At Astatine	127 I Iodine 53	80 Br Bromine	Fluorine 9 35.5 Ctlorine	<u> </u>	
Lawrencium 103	<u>-</u>	175 Lu Lutetium		Rn Radon 86	131 Xe Xenon	84 Xr Krypton	Neon 10 Neon 40 Ar Argon	O Helium	

DATA SHEET
The Periodic Table of the Elements

The volume of one mole of any gas is 28 dm³ at room temperature and pressure (r.t.p.)