

INFORMATION IN THE TABLE BELOW AND IN THE TABLES ON PAGES 3-5 MAY BE USEFUL IN ANSWERING THE QUESTIONS IN THIS SECTION OF THE EXAMINATION.

DO NOT DETACH FROM BOOK.

## PERIODIC TABLE OF THE ELEMENTS

1	2											3	4	5	6	7	8	9	10								
<b>H</b> 1.0079	<b>He</b> 4.0026											<b>B</b> 10.811	<b>C</b> 12.011	<b>N</b> 14.007	<b>O</b> 16.00	<b>F</b> 19.00	<b>Ne</b> 20.179										
3	4											11	12	13	14	15	16	17	18								
<b>Li</b> 6.941	<b>Be</b> 9.012											<b>Na</b> 22.99	<b>Mg</b> 24.30	<b>Al</b> 26.98	<b>Si</b> 28.09	<b>P</b> 30.974	<b>S</b> 32.06	<b>Cl</b> 35.453	<b>Ar</b> 39.948								
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36										
<b>K</b> 39.10	<b>Ca</b> 40.08	<b>Sc</b> 44.96	<b>Ti</b> 47.90	<b>V</b> 50.94	<b>Cr</b> 52.00	<b>Mn</b> 54.938	<b>Fe</b> 55.85	<b>Co</b> 58.93	<b>Ni</b> 58.69	<b>Cu</b> 63.55	<b>Zn</b> 65.39	<b>Ga</b> 69.72	<b>Ge</b> 72.59	<b>As</b> 74.92	<b>Se</b> 78.96	<b>Br</b> 79.90	<b>Kr</b> 83.80										
37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54										
<b>Rb</b> 85.47	<b>Sr</b> 87.62	<b>Y</b> 88.91	<b>Zr</b> 91.22	<b>Nb</b> 92.91	<b>Mo</b> 95.94	<b>Tc</b> (98)	<b>Ru</b> 101.1	<b>Rh</b> 102.91	<b>Pd</b> 106.42	<b>Ag</b> 107.87	<b>Cd</b> 112.41	<b>In</b> 114.82	<b>Sn</b> 118.71	<b>Sb</b> 121.75	<b>Te</b> 127.60	<b>I</b> 126.91	<b>Xe</b> 131.29										
55	56	57	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86										
<b>Cs</b> 132.91	<b>Ba</b> 137.33	<b>*La</b> 138.91	<b>Hf</b> 178.49	<b>Ta</b> 180.95	<b>W</b> 183.85	<b>Re</b> 186.21	<b>Os</b> 190.2	<b>Ir</b> 192.2	<b>Pt</b> 195.08	<b>Au</b> 196.97	<b>Hg</b> 200.59	<b>Tl</b> 204.38	<b>Pb</b> 207.2	<b>Bi</b> 208.98	<b>Po</b> (209)	<b>At</b> (210)	<b>Rn</b> (222)										
87	88	89	104	105	106	107	108	109	110	111	112																
<b>Fr</b> (223)	<b>Ra</b> 226.02	<b>†Ac</b> 227.03	<b>Rf</b> (261)	<b>Db</b> (262)	<b>Sg</b> (266)	<b>Bh</b> (264)	<b>Hs</b> (277)	<b>Mt</b> (268)	<b>Ds</b> (271)	<b>Rg</b> (272)	<b>§</b> (277)																
												§Not yet named															
												*Lanthanide Series															
												†Actinide Series															
												58	59	60	61	62	63	64	65	66	67	68	69	70	71		
												<b>Ce</b> 140.12	<b>Pr</b> 140.91	<b>Nd</b> 144.24	<b>Pm</b> (145)	<b>Sm</b> 150.4	<b>Eu</b> 151.97	<b>Gd</b> 157.25	<b>Tb</b> 158.93	<b>Dy</b> 162.50	<b>Ho</b> 164.93	<b>Er</b> 167.26	<b>Tm</b> 168.93	<b>Yb</b> 173.04	<b>Lu</b> 174.97		
												90	91	92	93	94	95	96	97	98	99	100	101	102	103		
												<b>Th</b> 232.04	<b>Pa</b> 231.04	<b>U</b> 238.03	<b>Np</b> 237.05	<b>Pu</b> (244)	<b>Am</b> (243)	<b>Cm</b> (247)	<b>Bk</b> (247)	<b>Cf</b> (251)	<b>Es</b> (252)	<b>Fm</b> (257)	<b>Md</b> (258)	<b>No</b> (259)	<b>Lr</b> (262)		

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