## Main-group element

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Go.a	-1	2	=	6	- 5	4	7		9		11	12	13	14	15	16	17	18
#Period																		
1	1 H																	2 He
?	3 Li	4 Be											5 B	6 C	7 N	8	9 F	10 Ne
3	ll Na	12 Mg											13 Al	14 Si	15 p	16 S	17 CI	18 Ar
٤	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
5	37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	43 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe
-6	55 Cs	56 Ba	*	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 TI	82 Pb	83 Bi	84 Po	85 At	86 Rn
7	87 Fr	88 Ra	**	104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt	110 Ds	111 Rg	112 Cn	113 Uut	114 FI	115 Uup	116 Lv	117 Uus	118 Juo
		*	57 La	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	65 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	
		78	89 Ac	90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	93 Cf	99 Es	100 Fm	101 Md	102 No	103 Lr	

The <u>periodic table</u> of the chemical elements. The columns represent the groups. Groups 1, 2 and 13 to 18 constitute the main group. Sometimes group 12 is also included in the main group.

In <u>chemistry</u> and atomic <u>physics</u>, the **main group** is the group of elements whose lightest members are represented by <u>helium</u>, <u>lithium</u>, <u>beryllium</u>, <u>boron</u>, <u>carbon</u>, <u>nitrogen</u>, <u>oxygen</u>, <u>fluorine</u>, and <u>neon</u> as arranged in the <u>periodic table</u> of the elements. The main group includes the elements (except hydrogen) in groups 1 and 2 (<u>s-block</u>), and groups 13 to 18 (<u>p-block</u>). <u>Group 12 elements</u> are usually considered to be transition metals; however, zinc (Zn), cadmium (Cd), and mercury (Hg) share some properties of both groups, and some scientists believe they should be included in the main group. [1][2]

In older nomenclature the main-group elements are groups IA and IIA, and groups IIIB to 0 (CAS groups IIIA to VIIIA). Group 12 is labelled as group IIB in both systems.

Main-group elements (with some of the lighter <u>transition metals</u>) are the most abundant elements on <u>Earth</u>, in the <u>Solar System</u>, and in the <u>Universe</u>. They are sometimes also called the **representative elements**.