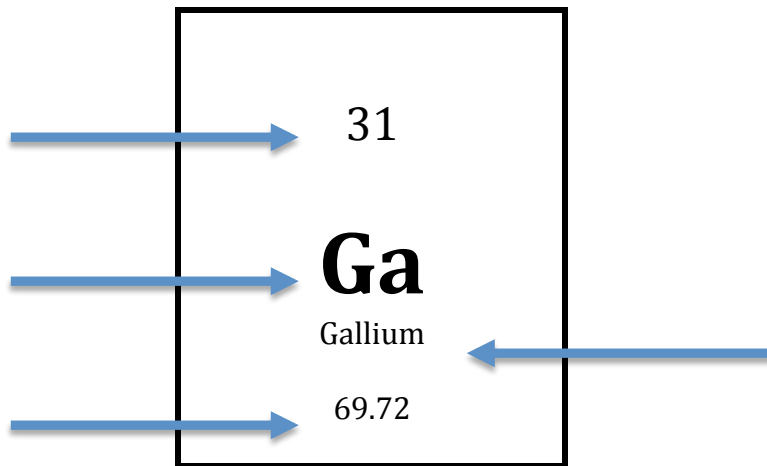


Objective: Know how to read the periodic table.

The elements on the periodic table contain useful information

On each element of the periodic table is a lot of information. Label the diagram below with the parts you need to know.



Atomic Number: the number of _____ in the atom's nucleus.

Element Symbol: the symbol the element receives (used in shorthand)

Element name: um, this is pretty self-explanatory.

Atomic Mass: the _____ of _____.

Try It Out

Complete the table below.

Element	Atomic Number	Atomic Mass
Oxygen		
Silicon		
Magnesium		

The periodic table is arranged by similarities in the elements.

By the mid-1800s about 60 elements were known. Today, _____ elements have been discovered (although element 117 was recently discovered, it must still go under a review process). In 1869, Dmitiri Mendeleev made a table based on the element's _____. As important as this first step was, some of the elements were misplaced. In order for the table to be periodic (or appearing at regular intervals), the elements needed to be placed in groups on how they _____.

The table was later changed based on the element's _____ (the number of _____). When this was done, it fixed some of the problems in Mendeleev's table.

Parts of the table have specific names

Label the parts of the table below.

1 H																	2 He
3 Li	4 Be											5 B	6 C	7 N	8 O	9 F	10 Ne
11 Na	12 Mg											13 Al	14 Si	15 P	16 S	17 Cl	18 Ar
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
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
55 Cs	56 Ba	57-71 Lanthanides	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
87 Fr	88 Ra	89-103 Actinides	104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt	110 Ds	111 Rg	112 Uub	113 Uut	114 Uuq	115 Uup	116 Uuh	117 Uus	118 Uuo
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	