

Periodic Table of elements

Alkali metals - red	Alkaline Earth metals - blue
Transition metals - use a {bracket}	Halogens - pink
Noble gases - green	Actinide Series - yellow
Metalloids - orange & bold stair step line	Lanthanide Series - purple
4. The period number tells me <u># of electron clouds</u>	5. The group numbers tell me <u>The # of valence electrons</u>

1. How many electrons fit in the first shell?		2. How many valence electrons fit in the second shell?		3. Which element does not follow the pattern of valence electrons?	
H	1	He	2	Li	3
Li	2	Be	2	Sc	3
Be	2	Ti	2	V	3
Mg	2	Nb	3	Cr	3
Na	3	Mo	3	Mn	3
K	3	Tc	3	Fe	3
Ca	4	Ru	4	Co	4
Sc	3	Pd	4	Mn	5
Y	3	Ag	4	Fe	5
La	5	Os	5	Co	6
Th	6	Ir	6	Mn	6
Cs	6	Pt	6	Fe	7
Rb	7	Au	7	Co	7
Fr	7	Al	8	Fe	8
Er	8	Si	8	Co	9
Rb	8	Ge	8	Fe	10
Fr	8	As	8	Co	11
Lu	9	Sb	8	Fe	12
Lu	9	Te	8	Co	13
Lu	9	Te	8	Fe	14
Lu	9	Te	8	Co	15
Lu	9	Te	8	Fe	16
Lu	9	Te	8	Co	17
Lu	9	Te	8	Fe	18
Lu	9	Te	8	Co	19
Lu	9	Te	8	Fe	20
Lu	9	Te	8	Co	21
Lu	9	Te	8	Fe	22
Lu	9	Te	8	Co	23
Lu	9	Te	8	Fe	24
Lu	9	Te	8	Co	25
Lu	9	Te	8	Fe	26
Lu	9	Te	8	Co	27
Lu	9	Te	8	Fe	28
Lu	9	Te	8	Co	29
Lu	9	Te	8	Fe	30
Lu	9	Te	8	Co	31
Lu	9	Te	8	Fe	32
Lu	9	Te	8	Co	33
Lu	9	Te	8	Fe	34
Lu	9	Te	8	Co	35
Lu	9	Te	8	Fe	36
Lu	9	Te	8	Co	37
Lu	9	Te	8	Fe	38
Lu	9	Te	8	Co	39
Lu	9	Te	8	Fe	40
Lu	9	Te	8	Co	41
Lu	9	Te	8	Fe	42
Lu	9	Te	8	Co	43
Lu	9	Te	8	Fe	44
Lu	9	Te	8	Co	45
Lu	9	Te	8	Fe	46
Lu	9	Te	8	Co	47
Lu	9	Te	8	Fe	48
Lu	9	Te	8	Co	49
Lu	9	Te	8	Fe	50
Lu	9	Te	8	Co	51
Lu	9	Te	8	Fe	52
Lu	9	Te	8	Co	53
Lu	9	Te	8	Fe	54
Lu	9	Te	8	Co	55
Lu	9	Te	8	Fe	56
Lu	9	Te	8	Co	57
Lu	9	Te	8	Fe	58
Lu	9	Te	8	Co	59
Lu	9	Te	8	Fe	60
Lu	9	Te	8	Co	61
Lu	9	Te	8	Fe	62
Lu	9	Te	8	Co	63
Lu	9	Te	8	Fe	64
Lu	9	Te	8	Co	65
Lu	9	Te	8	Fe	66
Lu	9	Te	8	Co	67
Lu	9	Te	8	Fe	68
Lu	9	Te	8	Co	69
Lu	9	Te	8	Fe	70
Lu	9	Te	8	Co	71
Lu	9	Te	8	Fe	72
Lu	9	Te	8	Co	73
Lu	9	Te	8	Fe	74
Lu	9	Te	8	Co	75
Lu	9	Te	8	Fe	76
Lu	9	Te	8	Co	77
Lu	9	Te	8	Fe	78
Lu	9	Te	8	Co	79
Lu	9	Te	8	Fe	80
Lu	9	Te	8	Co	81
Lu	9	Te	8	Fe	82
Lu	9	Te	8	Co	83
Lu	9	Te	8	Fe	84
Lu	9	Te	8	Co	85
Lu	9	Te	8	Fe	86
Lu	9	Te	8	Co	87
Lu	9	Te	8	Fe	88
Lu	9	Te	8	Co	89
Lu	9	Te	8	Fe	90
Lu	9	Te	8	Co	91
Lu	9	Te	8	Fe	92
Lu	9	Te	8	Co	93
Lu	9	Te	8	Fe	94
Lu	9	Te	8	Co	95
Lu	9	Te	8	Fe	96
Lu	9	Te	8	Co	97
Lu	9	Te	8	Fe	98
Lu	9	Te	8	Co	99
Lu	9	Te	8	Fe	100

Lanthanide Series	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Lu
Actinide Series	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No

- Group 1 has 1 valence electrons
- Group 2 has 2 valence electrons
- Group 13 has 3 valence electrons
- Group 14 has 4 valence electrons
- Group 15 has 5 valence electrons
- Group 16 has 6 valence electrons
- Group 17 has 7 valence electrons
- Group 18 has 8 valence electrons