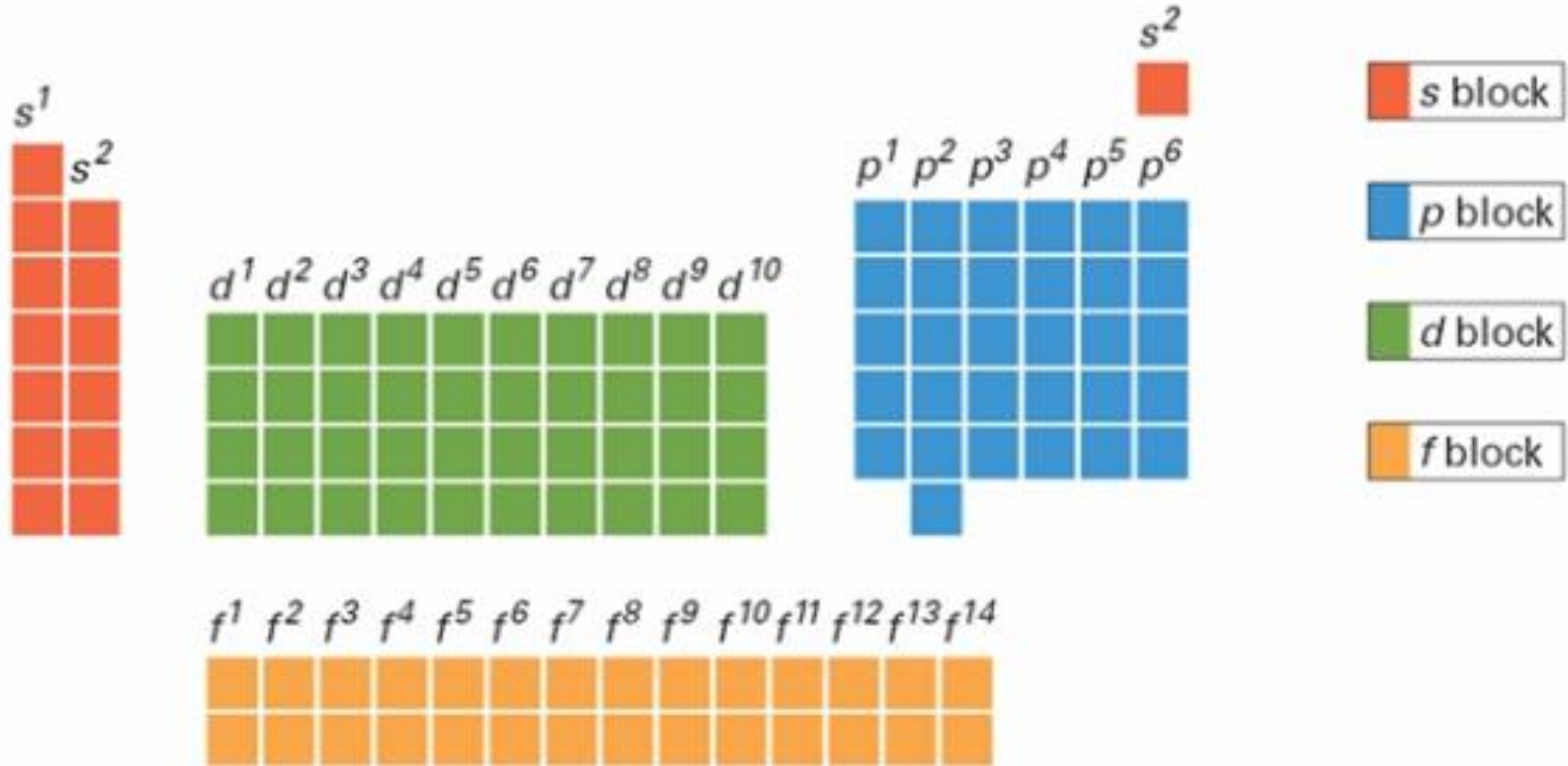




*d* ගොනුවේ මූලද්‍රව්‍ය

# මූලද්‍රව්‍ය ගොනු



S Block 1

## THE PERIODIC TABLE SYMBOLS

18

1	1																	2
1	H																	He
	2																	18
	3	4											5	6	7	8	9	10
2	Li	Be											B	C	N	O	F	Ne
	11	12											13	14	15	16	17	18
3	Na	Mg	3	4	5	6	7	8	9	10	11	12	Al	Si	P	S	Cl	Ar
	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
4	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
5	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
	55	56	57	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86
6	Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
	87	88	89	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118
7	Fr	Ra	Ac	Rf	Db	Sg	Bh	Hs	Mt	Uun	Uuu	Uub		Uuq		Uuh		Uuo

## KEY - ELEMENTS TYPES

- Alkali Metals
- Alkaline earth metals
- Transition Metals
- Lanthanides rare earth
- Actinides

58	59	60	61	62	63	64	65	66	67	68	69	70	71
Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
90	91	92	93	94	95	96	97	98	99	100	101	102	103
Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr

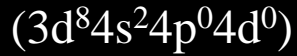
f Block

- Poor Metals
- Nonmetals
- Semimetals
- Noble Gases

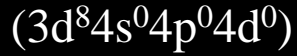
සංඝත සංකීර්ණ සජ්ජීම

Ni පරමාණුවේ

සංයුජතා  
ඉලෙක්ට්‍රෝන



Ni<sup>2+</sup> අයනය

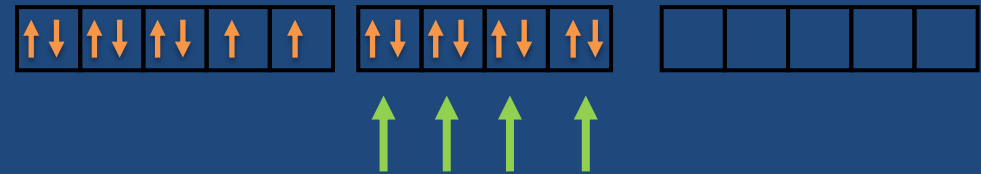


sp<sup>3</sup>

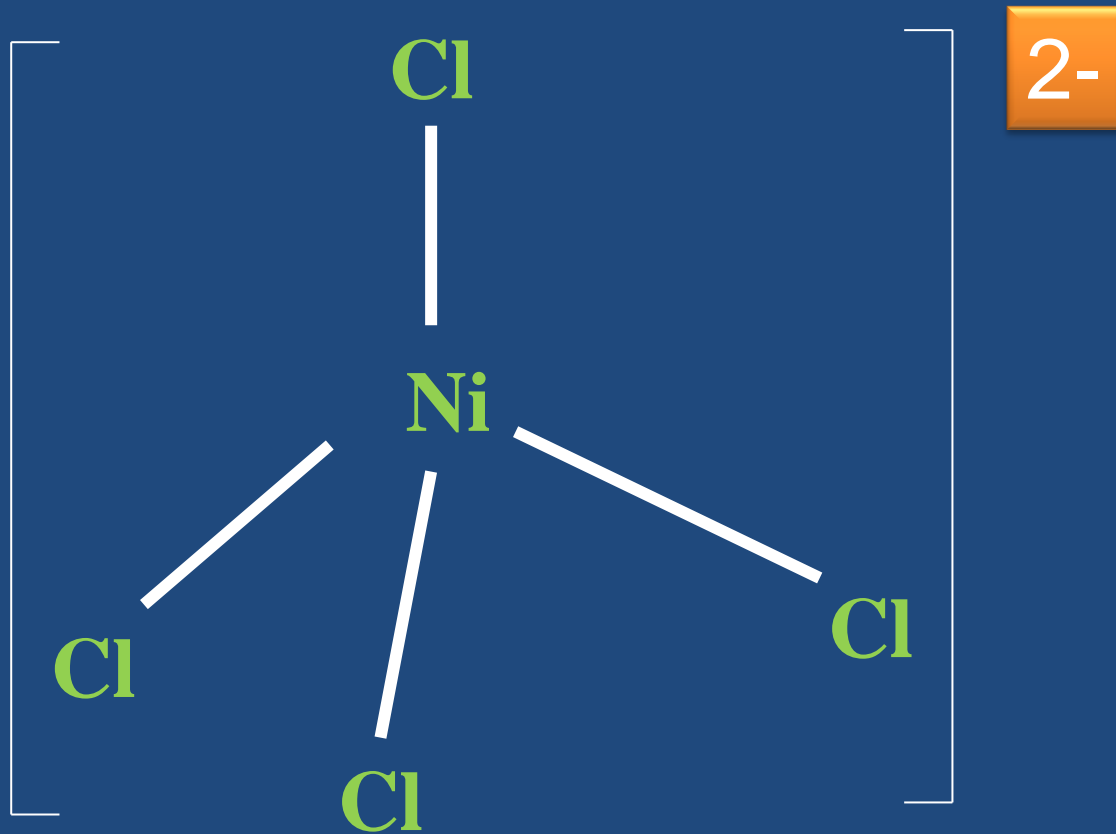
මුහුම්කරණයෙන්



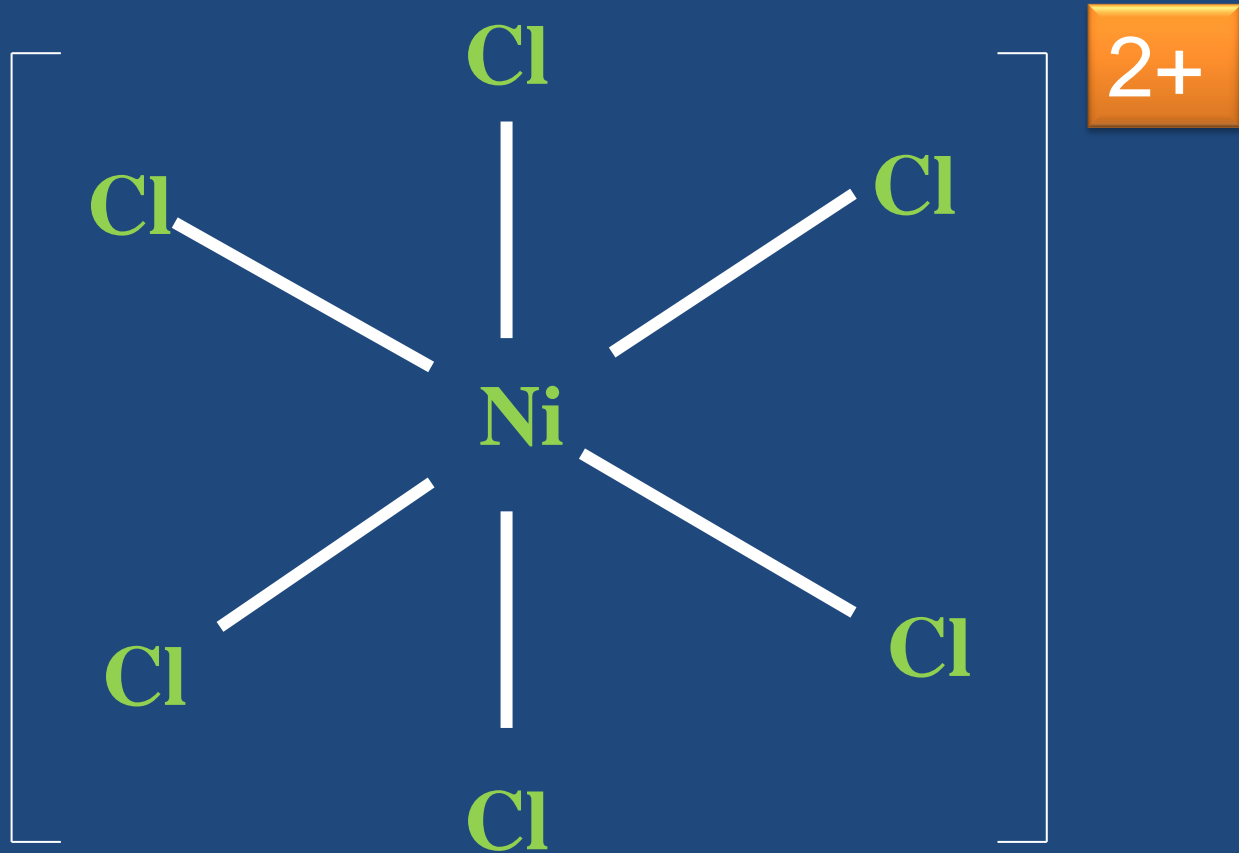
Sp<sup>3</sup> මුහුම්කරණය



# Tetrahedral



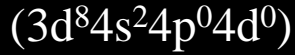
# Octahedral



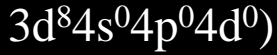
Ni පරමාණුවේ

සංයුජතා

ඉලෙක්ට්රෝන



Ni<sup>2+</sup> අයනය



$sp^3 d^2$

මුහුම්කරණයෙන්



3d

4s

4p

4d



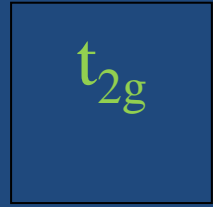
$Sp^3 d^2$  මුහුම්කරණය







වායුමය  
අවස්ථාවේ  
පවතින  
නිදහස් අයන

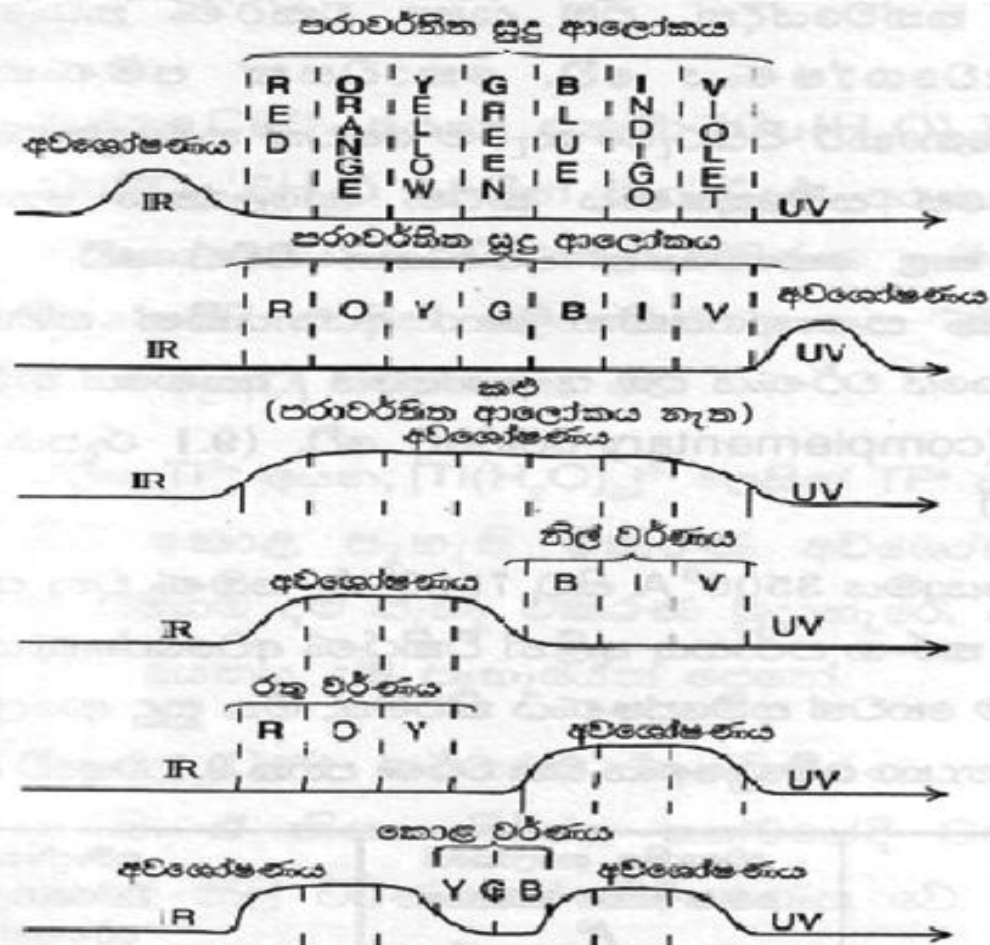


සුදු ආලෝකය



සම්පූර්ණ ආලෝකය





විකිරණ තරංග අවශෝෂණය වන ආකාර හා ඒ අනුව වර්ණ ඇතිවීම

metal	Oxidation no						
	+1	+II	+III	+IV	+V	+VI	+VII
Sc	-	-	colorless	-	-	-	-
Ti	-	-	violate	colourless	-	-	-
V	-	violate	Green	blue	light yellow	-	-
Cr	-	blue	violate blue	-		yellow or orange	-
Mn	-	light rose	-	black		green	violate
Fe	-	light green	yellow brown	-	-	-	-
Co	-	rose	yellow orange	-	-	-	-
Ni	-	green	-	-	-	-	-
Cu	colourless	blue	-	-	-	-	-
Zn	-	coloorles	-	-	-	-	-

