

ARJUNA NEET BATCH



Classification of Elements & Periodicity in Properties

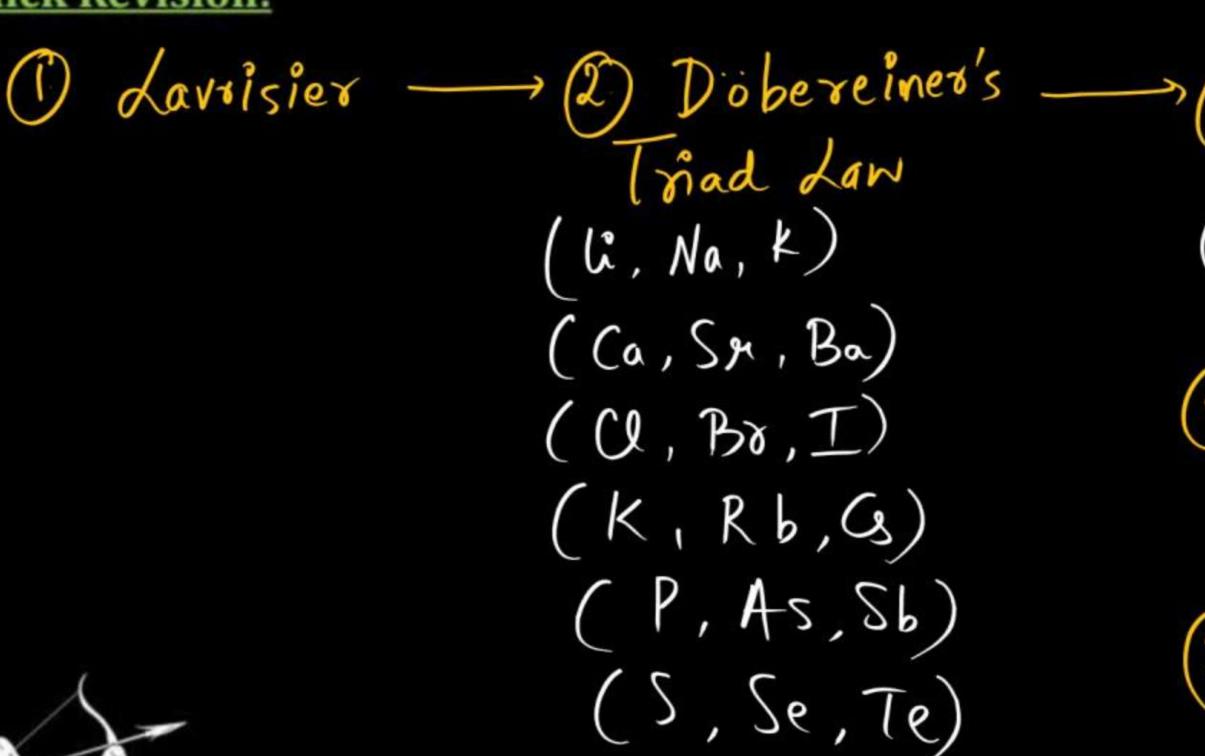


LECTURE-02

By:- Ashima Gupta



Quick Revision:



(by lind rical-table) Newlands Law of Octaves

(5) Lothar Meyers Graph J



(at 14. V/s ad. Mune) Peaks - Alkali metals Mendeleev's Charifien (63) (89 noups, 7 Periods)

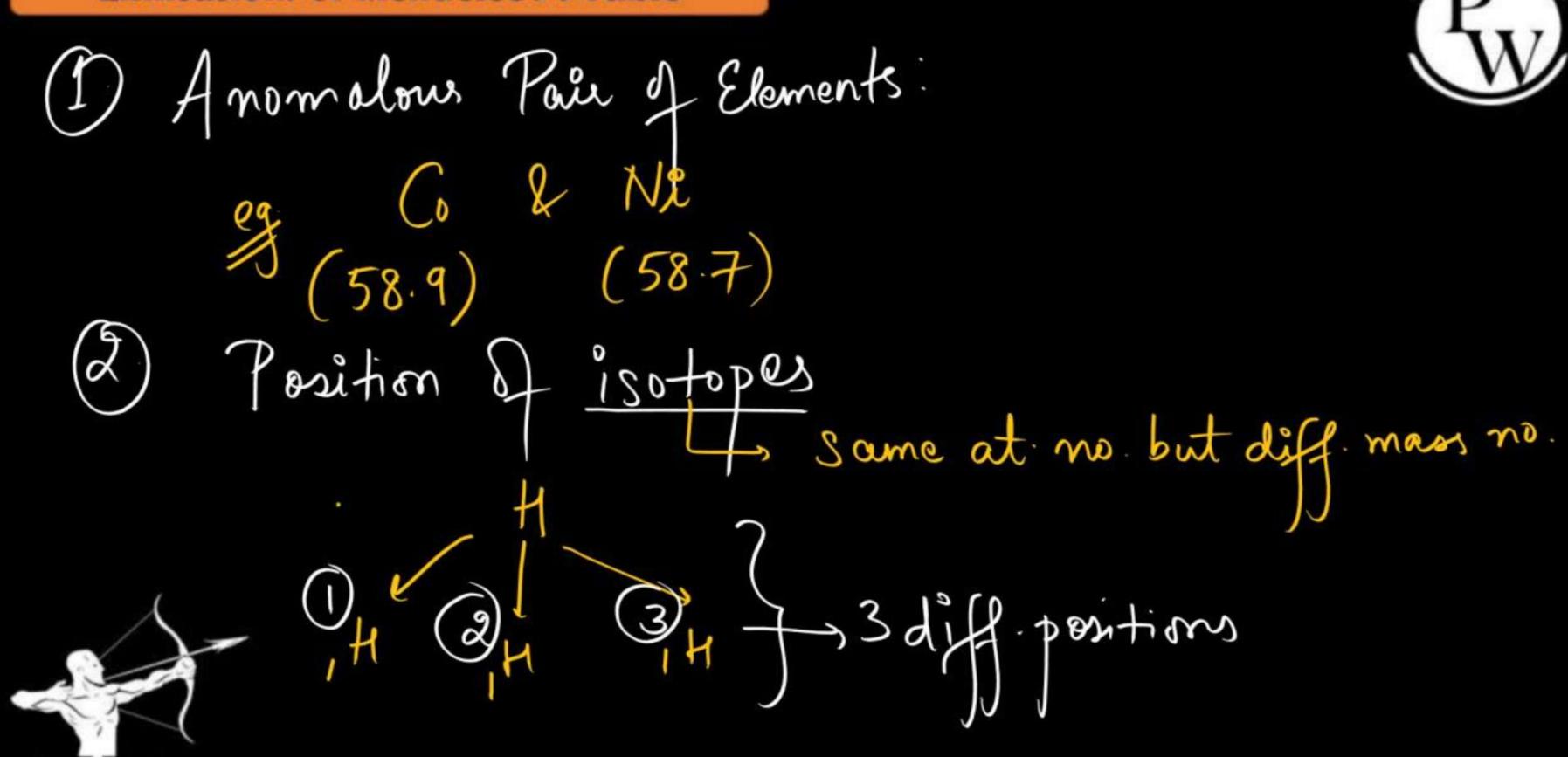
Objective of today's class



Modern Periodic Table

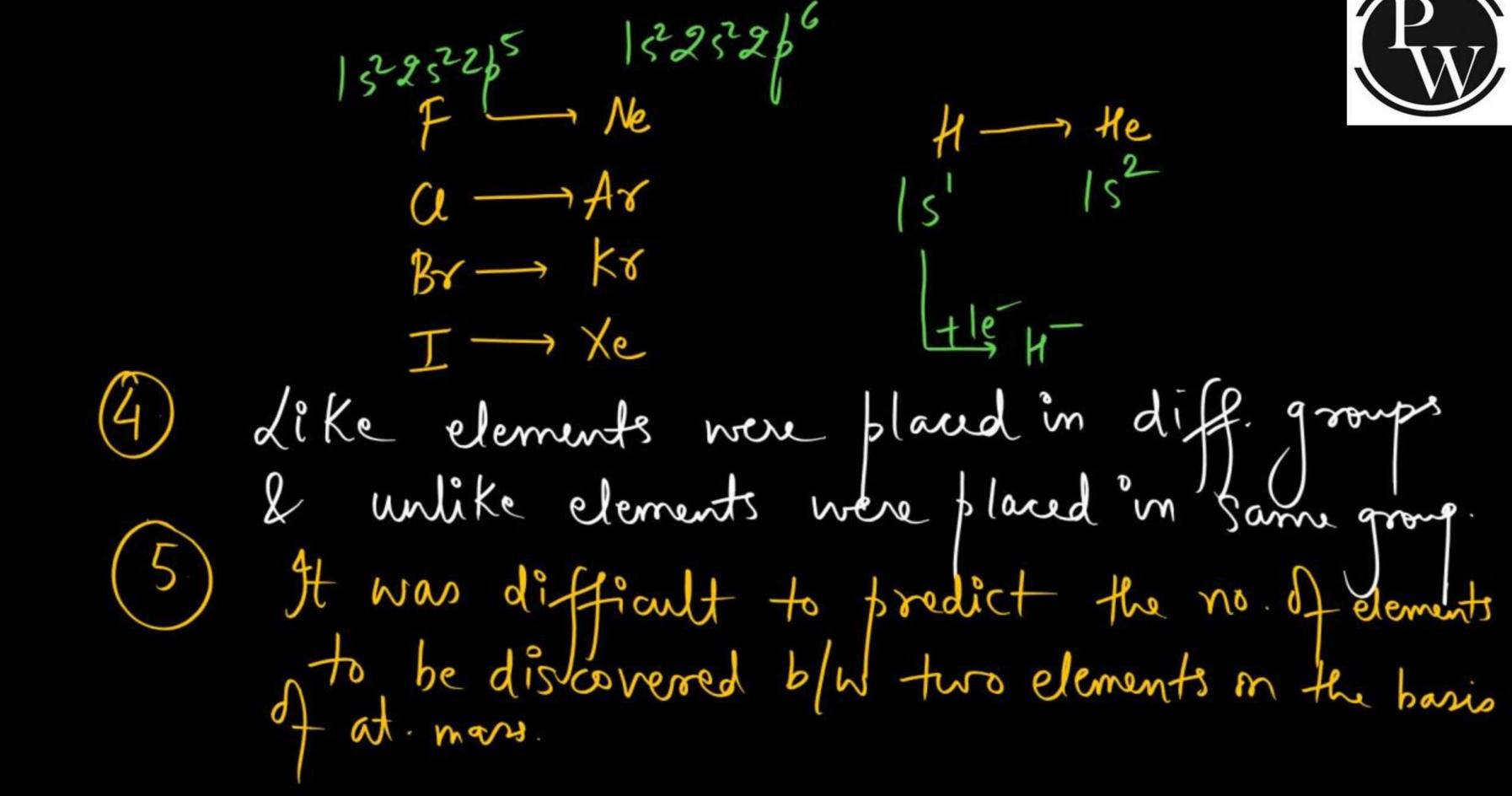


Limitations of Mendeleev's Table



12 6 Hydrogen Position Group VII A (Halogens) 9 voup IA

Hols H Honommetal





ad.mas 42.64 42.8 x3.2 43.6 47.8 m B 24 atomic no

Questions:

- 1. Mendeleev's periodic law is based on -
- (1) Atomic number X

(2) Atomic weight

(3) Number of neutrons

(4) None of the above



- 2. The first attempt to classify elements systematically was made by -
- (1) Mendeleev (2) Newland

- (3) Lothar Meyer
- (4) Dobereiner
- 3. Atomic weight of an element X is 39, and that of element Z is 132. atomic weight
- of their intermediate element Y, as per dobereiner triad, will be
- (1)88.5

(2)93.0

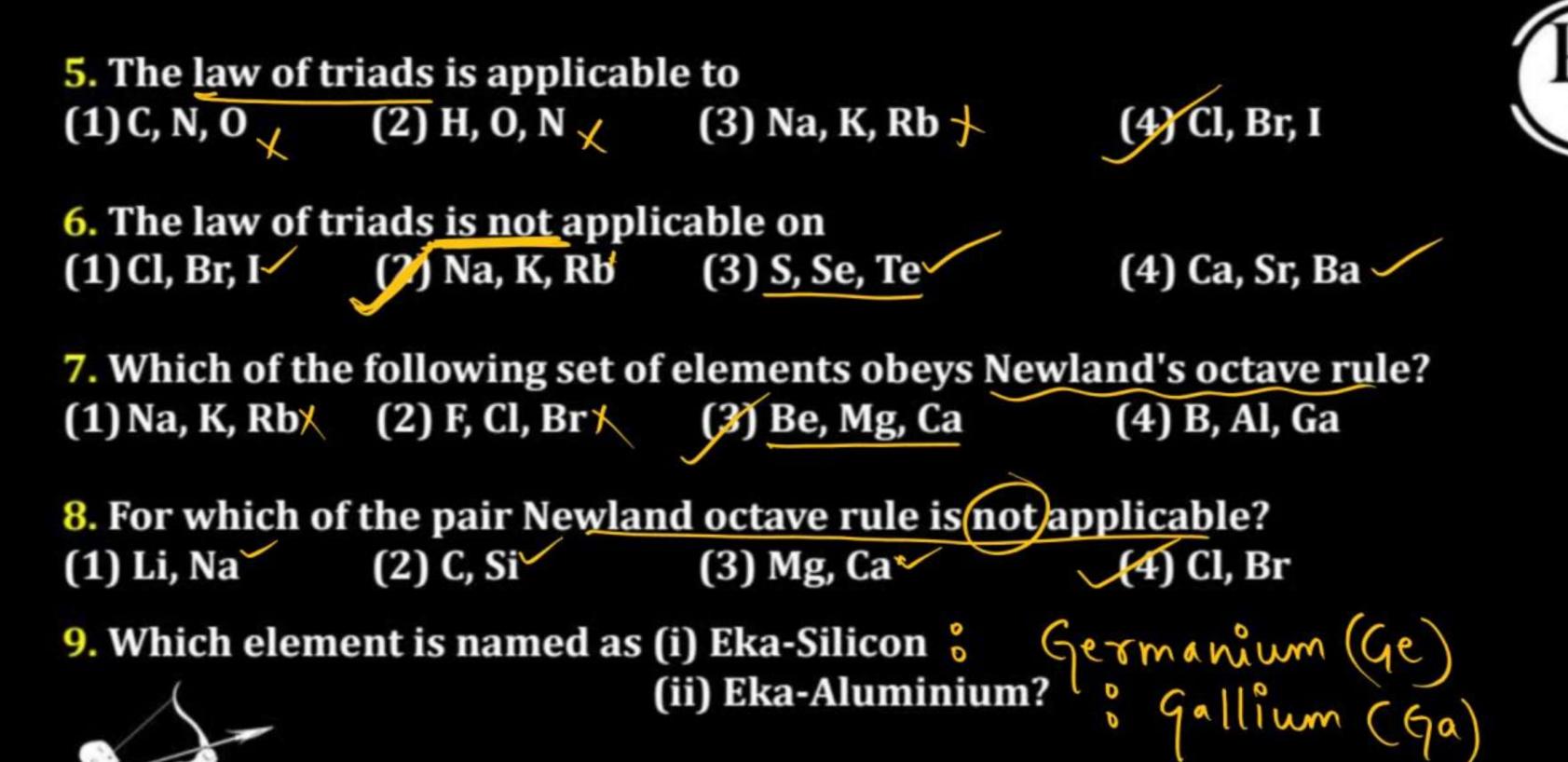
(3) 171

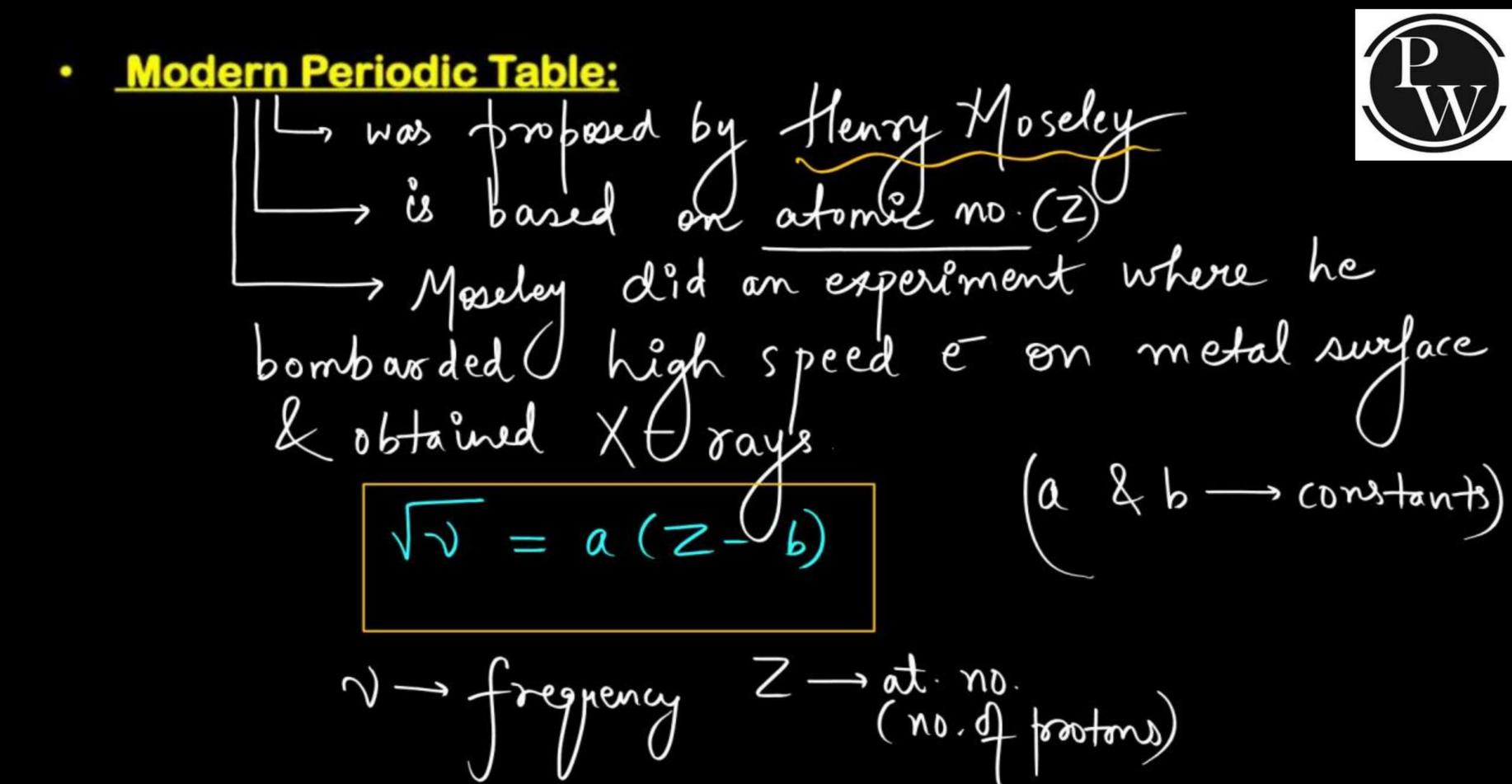
(4) 85.5

- 4. Which of the following is not a dobereiner triad?
- (1) Li, Na, K
- (2) Mg, Ca, Sr (3) Cl, Br, I











VV /s act. mass } concluded that at no. is a graph Moseley more fundamental property than at mans At. No.(Z) forms the Modern Periodic Table.

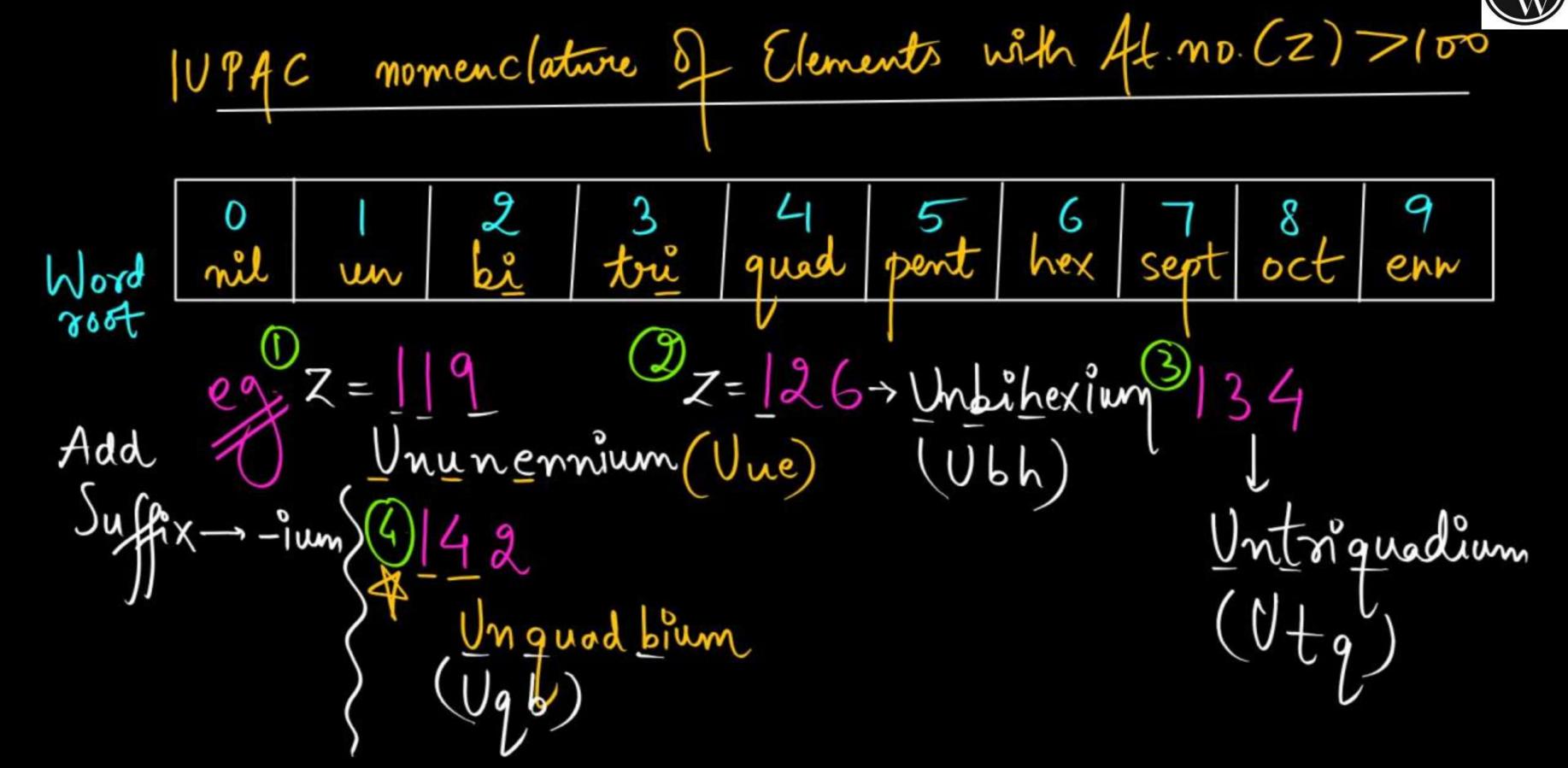


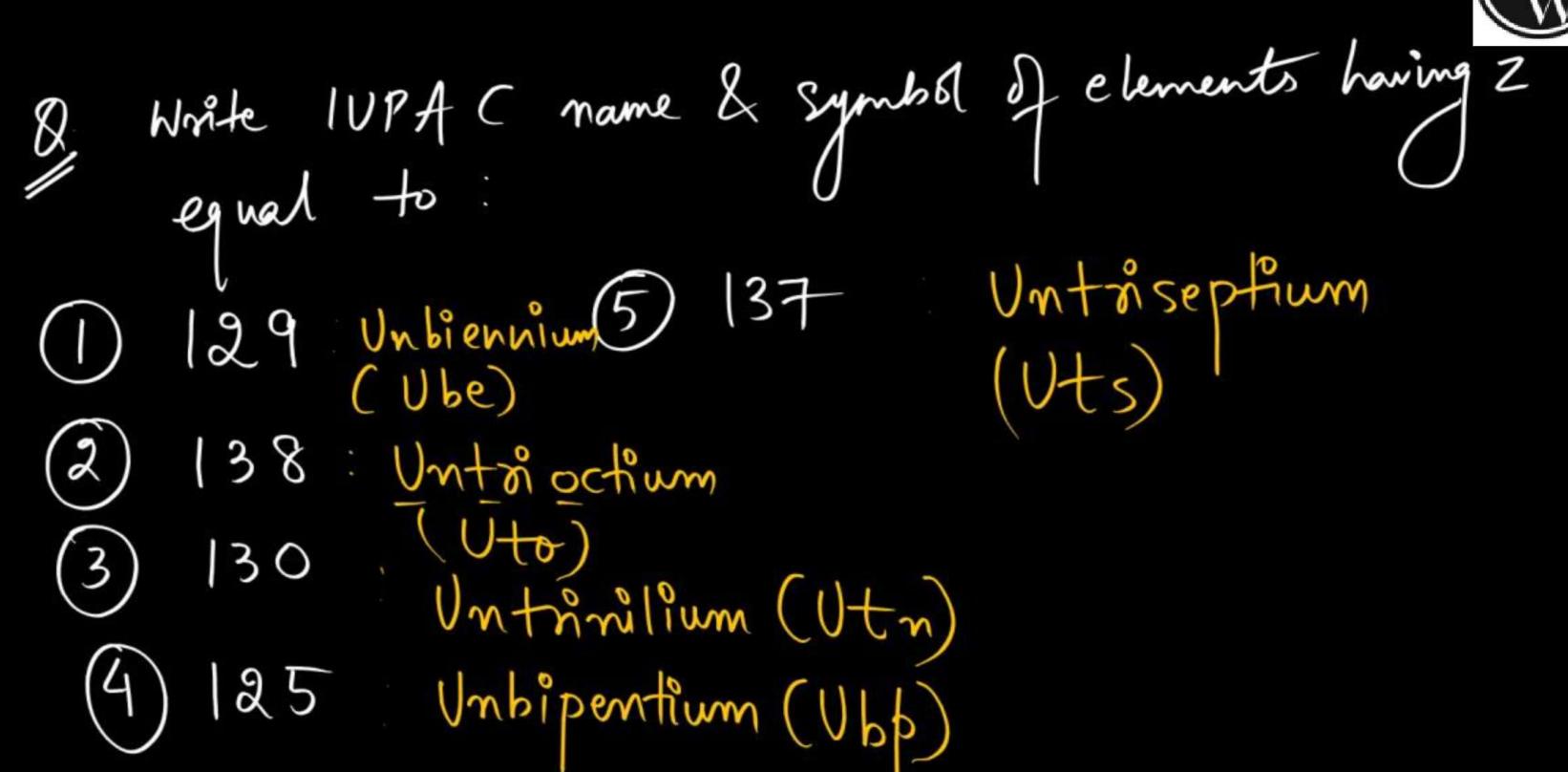
Modern Periodic Law: The physical & chemical properties of elements are a periodic function of their atomic no-(2) > Characteristics of Modern Long form of Periodic Table: 1) There are 18 vertical columns i.e. 18 Groups (2) There are 7 horizontal rows it. 7 persods Two rours ie danthanide series & Activide Series are placed below the table.

Lanthanoids 58 (e - Lu = 14 (Cerium - Lutetium)

Actimoids 90 Th - Ler (Thorium - Lawrencium)

103 = 14





Untriseptium





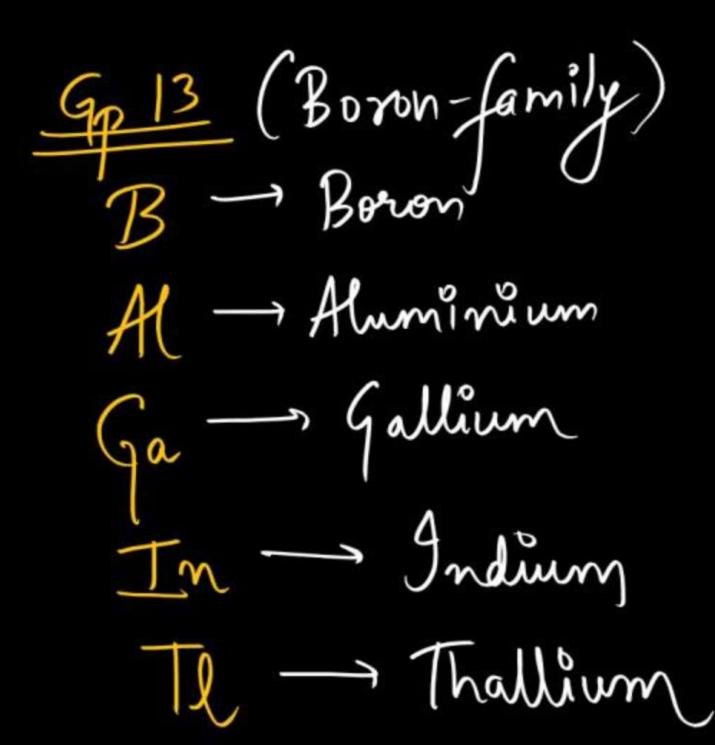
(Alkali Metals)

(exception - H- non-metal)

i thium HLi Na Ki Rab Se fariyale Na - Sodium HLi Na Ki Ruley Se Friendship (Cs) Potassium Rubidium (Radioactivity -> Francium

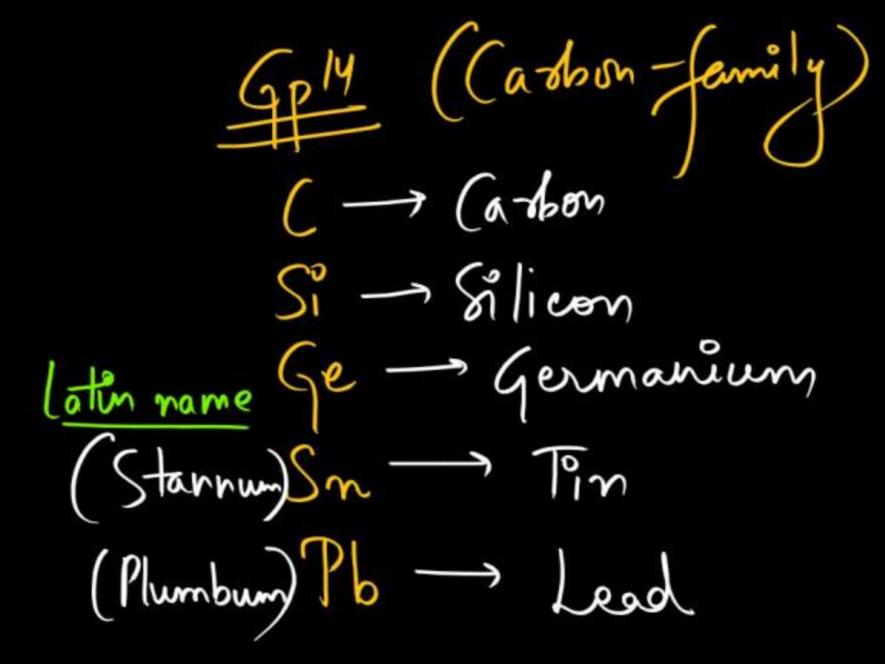


Gp 2 (Alkaline earth metals)
Be Beryllium (exception) Be O & Be(OH) : Amalstine Sn -> Strontium Ba - Basium



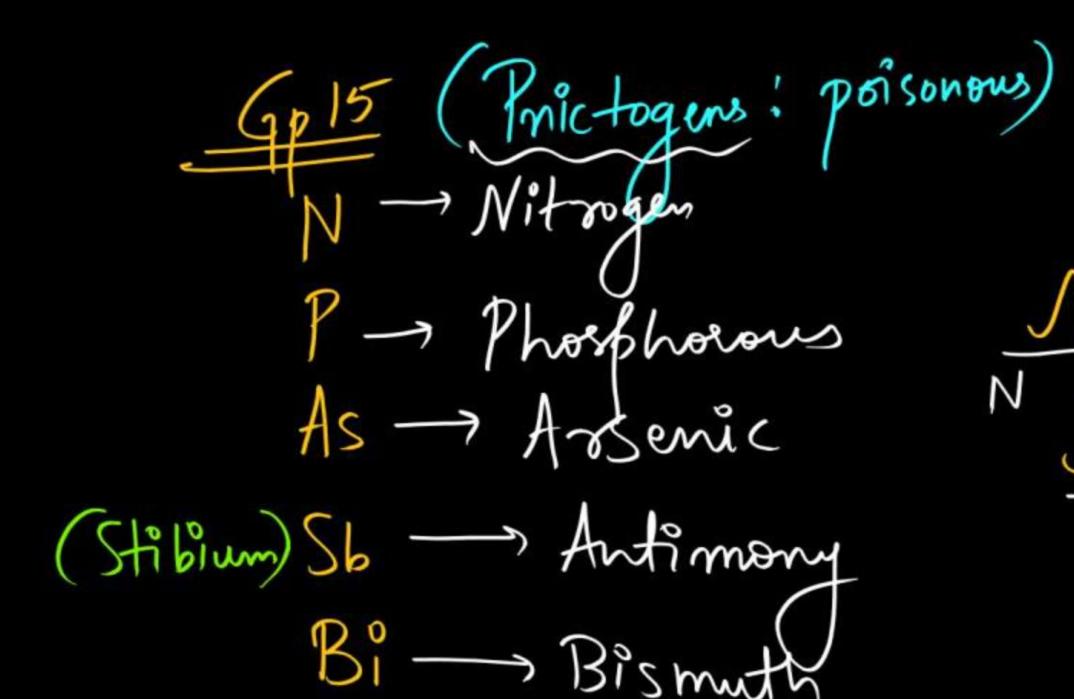


Boungan Aaloo Gajar B In Theli



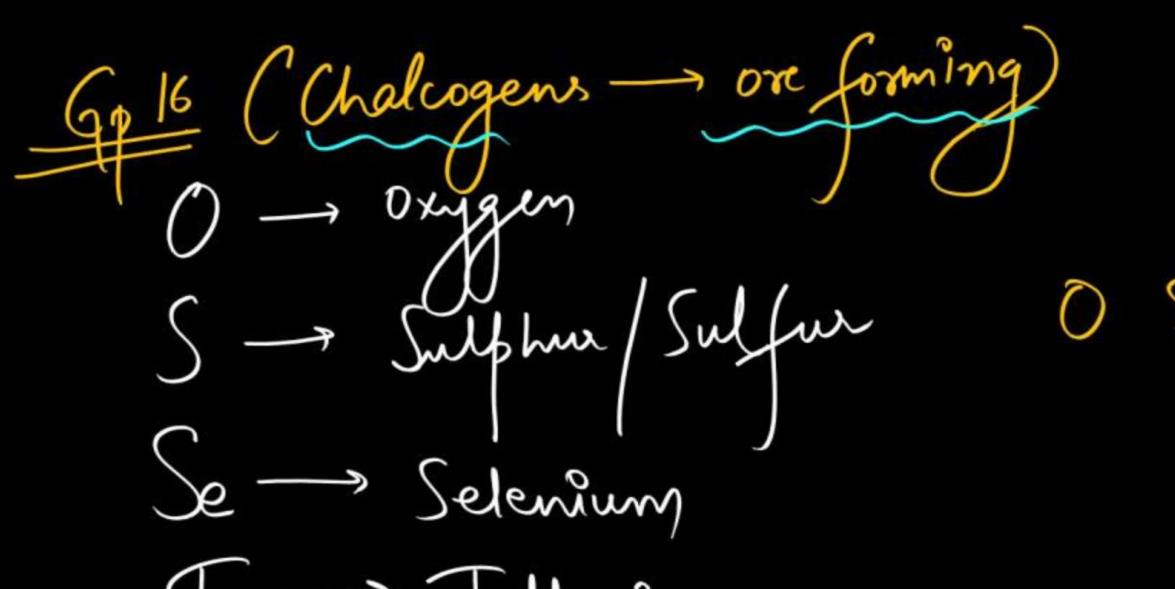


Kahe Sita Ji Sunu Poabhu Si Ge Sn 76 Chemistry Sir Give Sanki Spr Ge Problems





Nana Patekar Aishwanya N Sab P Bindaas Sb Bi

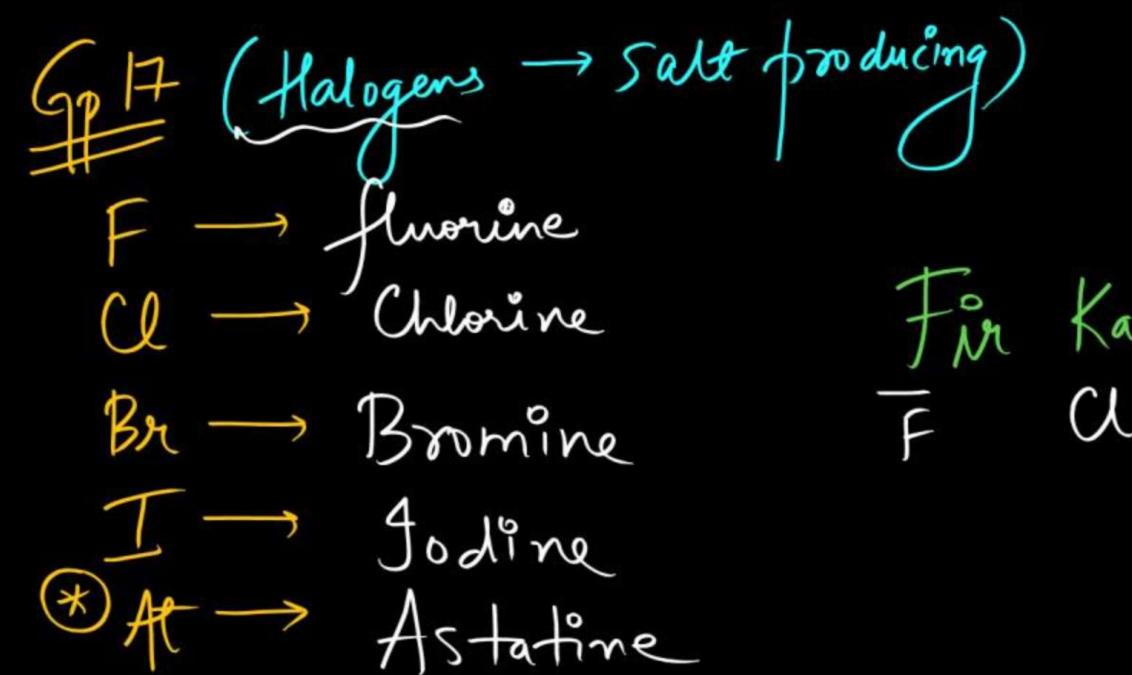




0 s se Te Po

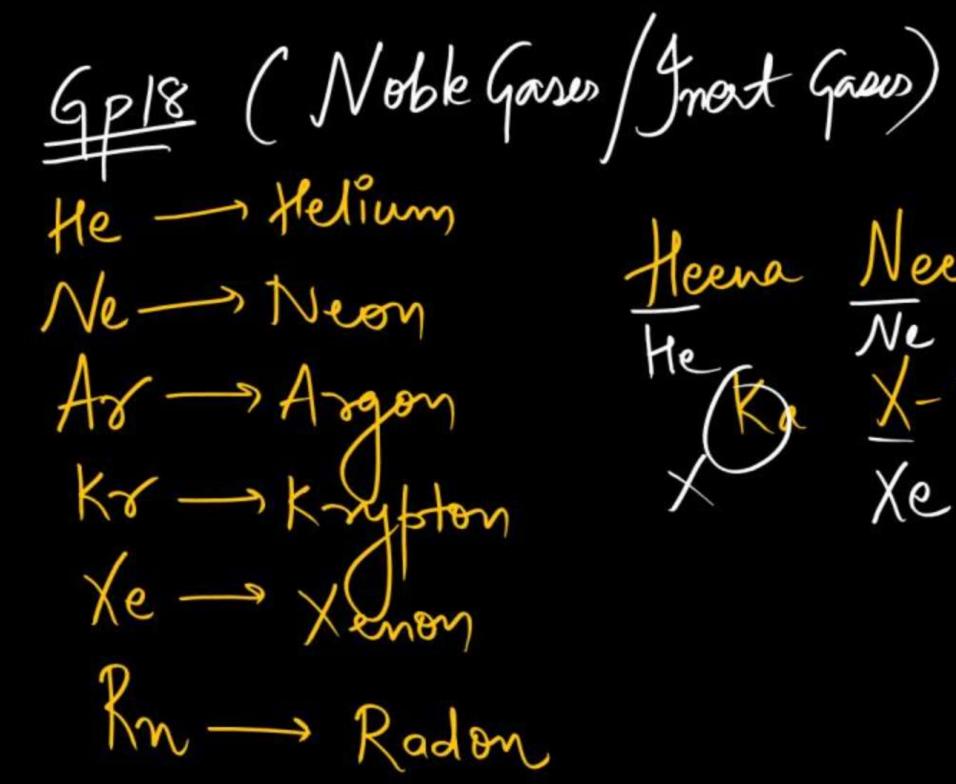
10 - Tellwrium

Palonium

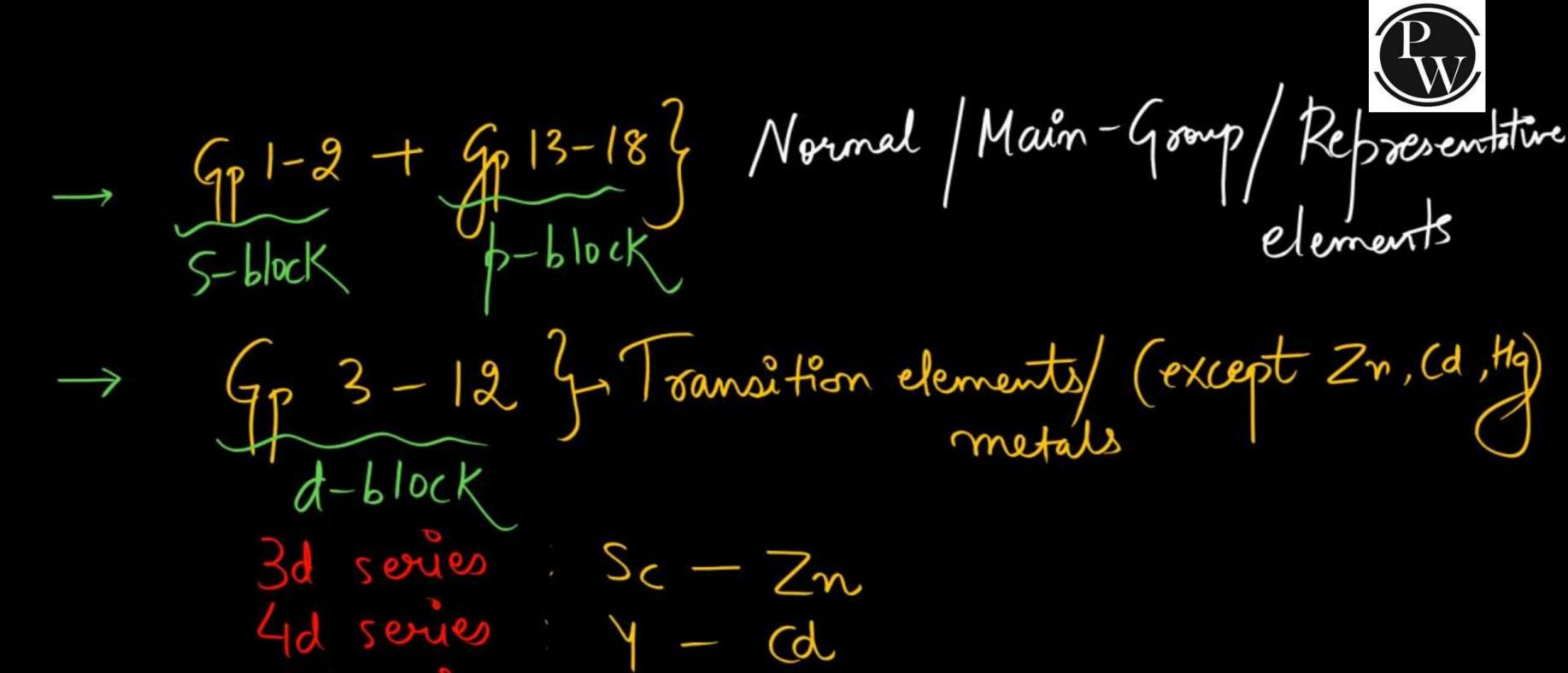




Fir Kal Bahan Azir F Cl Bo Aunty At







5d series : La - the 6d series : Ac - Ch



Landhanoids Zy f-block - Inner Transition Actinoids elements (Se Lu) 1st inner Transition series >(Th-dr) and inner Transition series



THANKYOU