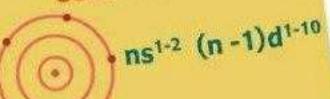
FLENISOFD - BLOCK

ELECTRONIC CONFIGURATION



D-BLOCK BUT NOT TRANSITION

Zinc, Cadmium and Mercury are d-block elements but not transition elements because of their completly filled d-orbitals

0

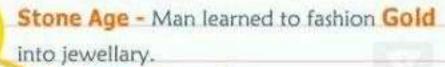
STABILITY MATTERS

Elements with half filled and fully filled orbitals are stable.

(a) 4s1 3d5

Cu 451 3d10

6000 BC



4200 BC

Started using Copper for weapons and utensils

4000 BC

Romans and Chinese started using Silver as currency

REACTION WITH ACIDS

	These metals reacts with
(ILE)	acids and release Hydrogen.

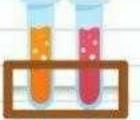
Copper doesn't react with acids because it is below Hydrogen in Electrochemical Series.



Sn

COLOUR OF COMPOUNDS

These compounds are coloured due to the presence of unpaired electrons in D-orbitals.



PARAMAGNETIC

They show magnetic properties due to presence of unpaired electrons.

OXIDATION STATE

These elements show variable oxidation states. (Fe⁺²,Fe⁺³)



Osmium shows maximum +8 oxidation state.

HISTORY OF D-BLOCK

Our ancients were so deeply attached to metals.



1500 BC

Iron Age - Started using Iron for tools and weapons.



2300-700 BC

Created Alloys by mixing two metals to increase strength and usability of metals