

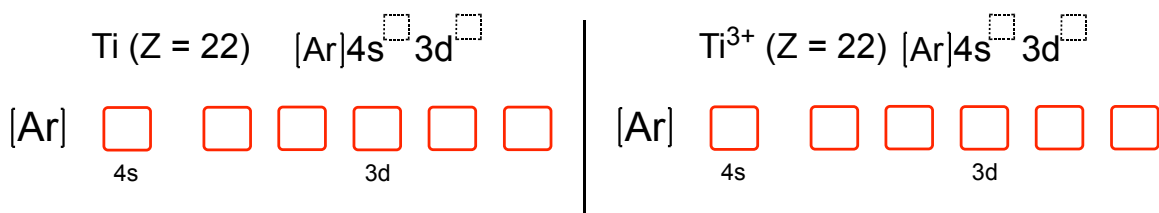
CONCEPT: ELECTRON CONFIGURATIONS OF TRANSITION METALS

• **The Transition Metals** occupy the ____-block or Group ____ of the periodic table.

□ For cations, electrons are lost from _____ shell number (n) first.

	1A (1)	2A (2)																3A (13)	4A (14)	5A (15)	6A (16)	7A (17)	8A (18)
1	1s																						He
2	2s																				2p		Ne
3	3s		3B	4B	5B	6B	7B	8B			1B	2B									3p		Ar
4	4s			Ti				3d													4p		Kr
5	5s							4d													5p		Xe
6	6s							5d													6p		Rn
7	7s							6d													7p		Og

										4f													
										5f													



EXAMPLE: Provide a condensed electron configuration for Vanadium (III) ion, V³⁺.

PRACTICE: Write an electron configuration for ion of Tungsten (IV).

PRACTICE: Determine electron configuration for the ion of Cd in cadmium sulfide (CdS) compound.