## Unit 2: Ch 5.2-5.3 - Electron Configurations #1 - "Longhand Notation"

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>	Heisenberg Und	certainty Principle -		
	RON CONFIGURA	ATIONS:		
	o Electron	s located in 3-D	··	
>	Described by		that represents	states
		, and	of electrons.	
			BER:	
	• S	Starts at the	and most	energy level
	(	•	to the nucleus).	
		•	_ number of <u>electrons</u> in	_energy level →
		o n=1 →		
		o n=2 →		
		o n=3 →		

o n=4 →

•	SYMBOL –
•	1)
•	2)
	EX:
	" " (sublevel):
	• to energy.
	• n=1 →
	• n=2 →
	• n=3 →
	• n=4 →
•	PUTTING IT TOGETHER:  • Sublevels have Region occupied by of
	o "s"→
	o "p"→
	o "d"→
	o "f"→
	WRITING ELECTRON CONFIGURATIONS: TAIL-TO-TIP METHOD
	<ul><li>Written as:</li></ul>
Ex #1) Carbon (C) –	Ex #4) Nickel (Ni) –
Ex #2) Chlorine (Cl) –	Ex #5) Cadmium (Cd) —
Ex #3) Potassium (K) -	Ex #6) Lead (Pb) —

ORBITAL QUANTUM NUMBER: