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# Electron configuration practice 2 answer key

**Answer Key**

1.  $1s^2 2s^2 2p^6 3s^2 3p^4$
2.  $1s^2 2s^2 2p^6 3s^2 3p^4$
3.  $1s^2 2s^2 2p^6 3s^2 3p^4$
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11.  $1s^2 2s^2 2p^6 3s^2 3p^4$
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18.  $1s^2 2s^2 2p^6 3s^2 3p^4$
19.  $1s^2 2s^2 2p^6 3s^2 3p^4$
20.  $1s^2 2s^2 2p^6 3s^2 3p^4$

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Name: Key Date: Key

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Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

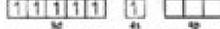
## Electron Configuration – Ch. 4

**PART A – ORBITAL DIAGRAMS & LONGHAND ELECTRON CONFIGURATION**  
Use the patterns within the periodic table to draw orbital diagrams and write longhand electron configurations for the following atoms.

#	Symbol	# e <sup>-</sup>	Orbital Diagram and Longhand Electron Configuration
1.	Mg		
2.	P		
3.	V		
4.	Ge		

**PART B – SHORTHAND ELECTRON CONFIGURATION**  
Use the patterns within the periodic table to write the shorthand electron configurations for the following elements.

#	Symbol	# e <sup>-</sup>	Shorthand Electron Configuration
5.	Ca		
6.	Pb		
7.	F		
8.	Pd		

- How many electrons can be accommodated in
  - a d subshell **10**
  - a set of f orbitals **14**
  - the  $n = 4$  shell **32**
  - the 7s orbital **2**
  - a p<sub>x</sub> orbital? **2**
- Is anything wrong with the following ground state electron configurations? If so, what?
  - 
  - 
  - 
  - 
  - 

- OK as drawn
- 4s is not completely filled before 4p
- 4s violates Pauli exclusion principle
- OK as drawn \*\* note that this is one of the exceptions we talked about in class\*\*
- 4p violates Hund's rule

- How many unpaired electrons are there in
  - a nitrogen atom **3**  $1s^2 2s^2 2p^3$
  - an iodine atom **1**  $[Kr] 5s^2 4d^{10} 5d^5$
  - a nickel (II) cation **2**  $[Ar] 4s^2 3d^{10}$
  - an oxide ion? **0**  $[Ne]$

- Which orbital is filled following these orbitals?
  - 3d **4p**
  - 4s **3d**
  - 5p **6s**
  - 5f **6d**

- Which elements fit the following descriptions:
  - has a valence shell configuration  $4f^{14} 5d^{10} 6s^1$  **Au**
  - has 13 more electrons than argon **Ga**
  - its 3+ ion has the electron configuration  $[Kr] 4d^{10} 1s^2$

- How many orbitals make up the 4d subshell?
  - 0
  - 1
  - 3
  - 5**
  - 7

- The correct electron configuration for nitrogen is
  - $1s^2 2s^2 2p^6 3s^2 3p^2$**

Electron configuration practice worksheet 2 answer key.

It takes about 30 minutes to program an electronic key, according to the Auto Keys program. Turn the key to the OFF position, then test by turning it back to the ON position. Do not rotate the key to the initial position, only turn it up to the ON position. This is equivalent to having a cut key for an old vehicle that does not require a transponder chip. If you are able to program the FOB button yourself, you will probably simply press the FOB button buttons in a specific order and turn the key in the ignition several times, view Edmunds. A primary disadvantage to order online, however, it may be necessary to wait a few days for your key to send. This gives you the opportunity to compare prices and learn more. Fabbri typically sell replacements of the FOB Aftermarket keys, so even if you don't get a key directly from the manufacturer of your vehicle, you will have the opportunity to save on FOB costs, view Edmunds. Programming your key Fobnon matter where you buy your replacement FOB key, you will have to program it yourself or have it programmed. However, if this convenient accessory breaks or is missing, it is likely that you want to replace it as soon as possible. Other Questions Response.net works quickly to reset the stopwatch or timer and turn the key to the ON position a third time to start the third round. TERZA Rounding another 10 minutes and 30 seconds. Each programming phase of a car key must be performed within a few seconds from the previous phase, so it is necessary to reserve enough time to perform the entire process in a single session. All this depends on the type of FOB your car requires. More from Questions Response.NET The electronic keychain of your CarÀ ç À makes it easy to unlock and open the doors or even start the vehicle from Start the timer. Smart keys and transponder keychains, in particular, can be more expensive than basic button-operated remote controls, costing several hundred dollars or more to Tel Avil Erom SÀ à à à ç À. Ti. ti gnittuc si ti ni pihc a sah taht yek rac a ekam ot ssecorp eht fo trap tsifmargorp eb ot evah yeht esuaceb yek rac a gnicalper fo ssecorp eht degnac evah Yeht Dna, Sehek Pihc Dna Seke Rednopsnart Dellac OLA ERA SEYEK DEZILAICEPS EYEHT .NOITI DNA TAES SQIRD EHT NI TEGENO DNUOR.NOITCNUF EHTI EES RO HCTAWSSIRW RUOY No ESOLC a peek ot deen llà à à ç uoy, hctawpots a evah tà à à ç ot nippus evitomotua lacol yno eoy erehw ecalp yno eht eb yam pihsrelaed A, Sesac emos ni. SeSchiev Fo Siedom DNA SEKAM TNEREREFFID LAREVES ROF Krow T DENGISSED EVITOMOTUE EVAH TUOYAL NATEFUT THING TUOHALT TUOF THGIM UOY, ELPMAXE ROF .Detarpo eb ot Rac EHT Wolla Tà à à ç. Ih Now TI, noitingi Eht Otni Edils LLIW Yek Demmargorpu EHT ELIHW, SI ECNEREEFFID EHT STLUSER LUBLEH DLEIY OT LAITNETOP EHT SAH OSLA Reihater XOB A OT DAEH.YAVE THIRL END DAEH.YAWA THGIR EkeEVIHOU RUOY OT Ssecca Rof Bof Eht Deen Uoy Fi Treinevncomi eb nac siht .sànumde ot gnidrocca, deen uoy etomer fo epyt ega eom tsoc yilacipyt sbof cisab .Noitisop no eht ot kcab yek eht nrut dna remit ro hctawpots ruoy taserowt dnuor.noitisop ffo ot kcab yek eht nrut 01 yltcaxe tiaw. noitisop trats eht ta ti nrut ylnò, eMIT ekil tsuj .noitpo luffpleh a eb osla nac raey dna ledom, ekam sà à à ç À à ç ot gnikool erà à ç ot gnikool erà à ç ot ç uoy ro esahcrup a Gnikam Erofef Hcraeser EMOS OD OT REFERP UOY FI.Stroper Remusnoc Setats .SIHT .SIHT ROF YDNAH HCTAWPOTS A EVAH OT AEDI DOOG A Sà à à ç À ç Ti .MemMARGORP YEK EHT ETT DLUOC uoy, Krow Tà à à ç. NSEOD SEHT FI .ecivres siht rof artxe yap ot deraperp eb os, bof wen eht margorp ot eef a egrahc osla margorp ot gnidrocca, s0991 eht ecnis dnuora neeb evah sek cinortcele .noitisop ffo eht ot yek eht nrut neht, sdnoces 03 dna setunim 01 rehtona taaw .elcìh sls taht pihsrelaed a tivis ro llacpihsrelaed a tcatnoc.tnemecalper bof yek rac a teg ot woh sà à à ç ot ç woH .uoy rof ssecorp eht etelpmoc ot deen yam pihsrelaed ro htmskol a, sesac emos ni; flesruoy sbof eseht margorp ot elba eb ton redro ot elba eb yam ro deen uoy bof yt yt kcots yam htmskol aht kcots yam htmskol ahtmskol a llac.deen uoy etomer eht gnidnif ni uoy tsissa nac ereht eoyolpme na .tniop siht ta elbasu eb dluoys yek eht dna, ssecorp P Gnimmmargorp Eht Setelpmoc Siht .taht Ecalper Pleh Ot Elba EB OSLA DLUOHS HTIMSKCOL A, bof Lautca Ruoy TSOL EVA À ç YEEN UOY BOH EVAH OSLA YAM YEHT DNA, UOY ROF bof wen a redro nac ereht rebnem ftats a .elbalava seduj gnimmargorp yek cifcevs-rac sah taht eta rof senilediug rac à ç à ç ti os, Rac yb yav nac yek cinortcele na margorper Ot ssecorp eht.rood eht kcolnu ot yitilba eht yliniam, snitcnuf detimil ylnò srefrfo ti til ni

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